

5001

Val	Ala	Val	Arg	Thr	Arg	Arg	Gly	Lys	Asp	Leu	Gly	Ser	Leu	Asp	Val
	610					615					620				
Ser	Glu	Val	Ile	Glu	Lys	Leu	Gln	Gln	Glu	Ile	Arg	Ser	Arg	Ser	Leu
625					630					635					640
Gln	Gln	Leu	Glu	Glu											
				645											

<210> 9378
 <211> 107
 <212> PRT
 <213> Enterobacter cloacae

<400> 9378																
Gly	Ile	Lys	Gly	Gly	Lys	Arg	Val	Gln	Thr	Ala	Arg	Pro	Asn	Arg	Ile	
1				5					10					15		
Asn	Gly	Glu	Ile	Arg	Ala	Gln	Glu	Val	Arg	Leu	Thr	Gly	Leu	Glu	Gly	
			20					25					30			
Glu	Gln	Leu	Gly	Ile	Val	Ser	Leu	Arg	Glu	Ala	Ile	Glu	Lys	Ala	Glu	
		35					40					45				
Glu	Ala	Gly	Val	Asp	Leu	Val	Glu	Ile	Ser	Pro	Asn	Ala	Glu	Pro	Pro	
	50					55					60					
Val	Cys	Arg	Ile	Met	Asp	Tyr	Gly	Lys	Phe	Leu	Tyr	Glu	Lys	Ser	Lys	
65					70					75					80	
Ser	Ser	Lys	Glu	Gln	Lys	Lys	Lys	Gln	Lys	Val	Ile	Gln	Val	Lys	Glu	
				85				90						95		
Ile	Lys	Phe	Arg	His	Val	Phe	Thr	Ser	Arg							
			100					105								

<210> 9379
 <211> 235
 <212> PRT
 <213> Enterobacter cloacae

<400> 9379																
Leu	Pro	Phe	Arg	Ile	Phe	Pro	Pro	Ala	Leu	Thr	Pro	Arg	Trp	Ile	Ser	
1				5					10					15		
Arg	Leu	Arg	Gly	Cys	Ala	Pro	Arg	Leu	Lys	Val	Asn	His	Met	Leu	Asp	
			20					25					30			
Lys	His	Leu	His	Pro	Arg	Leu	Lys	Pro	Gly	Leu	Asn	Gln	Leu	Ala	Ala	
		35					40					45				
Ala	Leu	Asp	Lys	Pro	Phe	Ile	Thr	Pro	Asp	Gly	Leu	Thr	Leu	Ala	Gly	
	50					55					60					
Phe	Ala	Ile	Gly	Val	Leu	Ala	Leu	Pro	Phe	Leu	Ala	Leu	Gly	Trp	Tyr	
65				70					75						80	
Pro	Ala	Ala	Leu	Ile	Ala	Ile	Val	Leu	Asn	Arg	Leu	Leu	Asp	Gly	Leu	
				85				90						95		
Asp	Gly	Ala	Leu	Ala	Arg	Arg	Arg	Gly	Leu	Thr	Asp	Ala	Gly	Gly	Phe	
		100						105					110			
Leu	Asp	Ile	Ala	Leu	Asp	Phe	Leu	Phe	Tyr	Ala	Leu	Val	Pro	Phe	Gly	
		115					120					125				
Phe	Ala	Leu	Ala	Ala	Pro	Ala	Asp	Asn	Ala	Ile	Ala	Ala	Ala	Trp	Leu	
	130					135					140					
Leu	Phe	Ala	Phe	Met	Gly	Thr	Gly	Ser	Ser	Phe	Leu	Ala	Phe	Ala	Ala	
145					150					155					160	
Leu	Ala	Gly	Lys	His	Asp	Ile	Asp	Asn	Pro	Gly	Tyr	Ala	His	Lys	Ser	
				165				170						175		
Leu	Tyr	Tyr	Ile	Gly	Gly	Leu	Thr	Glu	Gly	Thr	Glu	Thr	Ile	Ala	Leu	
		180						185					190			
Phe	Val	Leu	Cys	Ser	Leu	Phe	Pro	Ala	His	Phe	Ala	Leu	Phe	Ala	Trp	
		195					200					205				
Val	Phe	Gly	Ala	Leu	Cys	Trp	Leu	Thr	Thr	Thr	Thr	Arg	Ile	Trp	Ser	

jc530 U.S. PTO
 09/25/2691
 02/18/99

210 215 220
 Gly Tyr Ile Thr Leu Lys Ser Leu Pro Arg
 225 230 235

<210> 9380
 <211> 500
 <212> PRT
 <213> Enterobacter cloacae

<400> 9380
 Gly Glu Asn Ser Met Thr Leu Trp Ile Asn Gly Asp Trp Val Thr Gly
 1 5 10 15
 Glu Gly Asp Ala Arg Thr Lys Thr Asn Pro Val Gly Gln Glu Val Leu
 20 25 30
 Trp Ser Gly Asn Asp Ala Ser Ala Gly Gln Val Glu Gln Ala Cys Gln
 35 40 45
 Ala Ala Arg Arg Ala Phe Pro Ala Trp Ala Lys Arg Pro Phe Ser Glu
 50 55 60
 Arg Gln Ala Leu Val Glu Lys Phe Ala Ala Leu Leu Glu Ala Asn Lys
 65 70 75 80
 Ala Glu Leu Thr Arg Ile Ile Ala Cys Glu Thr Ser Lys Pro Arg Trp
 85 90 95
 Glu Ala Thr Thr Glu Val Thr Ala Met Ile Asn Lys Ile Ala Ile Ser
 100 105 110
 Val Lys Ala Tyr His Thr Arg Thr Gly Glu Gln His Thr Glu Met Pro
 115 120 125
 Asp Gly Ala Ala Thr Leu Arg His Arg Pro His Gly Val Leu Ala Val
 130 135 140
 Phe Gly Pro Tyr Asn Phe Pro Gly His Leu Pro Asn Gly His Ile Val
 145 150 155 160
 Pro Ala Leu Leu Ala Gly Asn Thr Val Ile Phe Lys Pro Ser Glu Leu
 165 170 175
 Thr Pro Leu Thr Gly Glu Ala Val Val Lys Leu Trp Glu Gln Ala Gly
 180 185 190
 Leu Pro Pro Gly Val Leu Asn Leu Val Gln Gly Gly Arg Glu Thr Gly
 195 200 205
 Gln Ala Leu Ser Ala Leu Ser Asp Ile Asp Gly Leu Leu Phe Thr Gly
 210 215 220
 Ser Ala Gly Thr Gly Tyr Gln Leu His Arg Gln Leu Ala Gly Gln Pro
 225 230 235 240
 Glu Lys Ile Leu Ala Leu Glu Met Gly Gly Asn Asn Pro Leu Ile Val
 245 250 255
 Glu Asp Pro Glu Asp Ile Asp Ala Ala Val His Leu Thr Ile Gln Ser
 260 265 270
 Ala Phe Ile Thr Ala Gly Gln Arg Cys Thr Cys Ala Arg Arg Leu Leu
 275 280 285
 Val Lys Arg Gly Ala Gln Gly Asp Ala Phe Leu Lys Arg Leu Val Glu
 290 295 300
 Val Ser Ala Arg Leu Val Pro Ala Lys Trp Asp Ala Glu Pro Gln Pro
 305 310 315 320
 Phe Ile Gly Gly Leu Ile Ser Gly Gln Ala Ala Leu Asn Val Leu Lys
 325 330 335
 Ala Trp Gln Glu His Val Ala Arg Gly Ala Lys Thr Leu Leu Glu Pro
 340 345 350
 Lys Leu Val Gln Pro Gly Thr Ser Leu Leu Thr Pro Gly Ile Ile Asp
 355 360 365
 Met Ser Ala Thr Ser Asn Val Pro Asp Glu Glu Val Phe Gly Pro Leu
 370 375 380
 Leu Cys Val Trp Arg Tyr Asp Asp Phe Glu Ser Ala Ile Glu Met Ala
 385 390 395 400
 Asn Asn Thr Arg Tyr Gly Leu Ser Ser Gly Leu Ile Ser Pro His Arg

5003

				405					410					415			
Glu	Lys	Phe	Asp	Gln	Leu	Leu	Leu	Glu	Ala	Arg	Ala	Gly	Ile	Val	Asn		
			420					425					430				
Trp	Asn	Lys	Pro	Leu	Thr	Gly	Ala	Ala	Ser	Thr	Ala	Pro	Phe	Gly	Gly		
		435					440					445					
Val	Gly	Ala	Ser	Gly	Asn	His	Arg	Ala	Ser	Ala	Trp	Tyr	Ala	Ala	Asp		
	450					455					460						
Tyr	Cys	Ala	Trp	Pro	Met	Ala	Ser	Leu	Glu	Thr	Pro	Ala	Leu	Thr	Leu		
465					470					475					480		
Pro	Glu	Thr	Leu	Asn	Pro	Gly	Leu	Asp	Phe	Thr	Glu	Gly	Asp	Ala	His		
				485					490					495			
Glu	Ser	Ala															

500

<210> 9381

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 9381

Thr	Arg	Gly	Arg	Asn	Met	Asn	Lys	Asn	Val	Ala	Gly	Ile	Leu	Ser	Ala		
1				5					10					15			
Ala	Ala	Val	Leu	Thr	Met	Leu	Ala	Gly	Cys	Thr	Ala	Tyr	Asp	Arg	Thr		
			20					25					30				
Lys	Asp	Gln	Phe	Thr	Gln	Pro	Val	Val	Lys	Asp	Val	Lys	Lys	Gly	Met		
		35					40					45					
Thr	Arg	Ser	Gln	Val	Ala	Ala	Ile	Ala	Gly	Lys	Pro	Ser	Ser	Glu	Val		
		50				55					60						
Thr	Met	Ile	His	Ala	Arg	Gly	Thr	Cys	Gln	Thr	Tyr	Ile	Leu	Gly	Gln		
65					70					75					80		
Arg	Asp	Gly	Lys	Ala	Glu	Thr	Tyr	Phe	Val	Ala	Leu	Asp	Asp	Thr	Gly		
				85					90					95			
His	Val	Ile	Asn	Ser	Gly	Tyr	Gln	Thr	Cys	Ala	Glu	Tyr	Asp	Thr	Asp		
			100					105						110			
Pro	Gln	Ala	Pro	Lys	Ala	Gln											
			115					120									

<210> 9382

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9382

Lys	Gly	Glu	Ile	Met	Asn	Ile	Asp	Asp	Met	Ile	Ala	Gly	Met	Thr	Pro		
1				5					10					15			
Glu	Val	Tyr	Gln	Arg	Leu	Val	Thr	Ala	Val	Glu	Leu	Gly	Lys	Trp	Pro		
			20					25					30				
Asp	Gly	Val	Ala	Leu	Thr	Pro	Glu	Gln	Lys	Glu	Asn	Ser	Leu	Gln	Leu		
		35					40					45					
Val	Met	Leu	Trp	Gln	Ala	Arg	His	Asn	Thr	Asp	Ala	Gln	His	Met	Thr		
		50				55					60						
Ile	Asp	Thr	Asn	Gly	Gln	Met	Val	Met	Lys	Ser	Lys	Arg	Glu	Leu	Lys		
65					70					75					80		
Glu	Asp	Phe	Gly	Ile	Thr	Pro	Lys	Pro	Ile	Ala	Thr	Met	Lys	Met	Gln		
				85					90					95			

<210> 9383

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 9383

Gln Glu Thr Ser Met Ser Glu Gln Thr Ile Arg Leu Thr Gln Tyr Ser
 1 5 10 15
 His Gly Ala Gly Cys Gly Cys Lys Ile Ser Pro Lys Val Leu Glu Thr
 20 25 30
 Ile Leu His Ser Glu Gln Ala Lys Phe Val Asp Pro Asn Leu Leu Val
 35 40 45
 Gly Asn Glu Thr Arg Asp Asp Ala Ala Val Tyr Asp Leu Gly Asn Gly
 50 55 60
 Thr Ser Ile Ile Ser Thr Thr Asp Phe Phe Met Pro Ile Val Asp Asn
 65 70 75 80
 Pro Phe Asp Phe Gly Arg Ile Ala Ala Thr Asn Ala Ile Ser Asp Ile
 85 90 95
 Phe Ala Met Gly Gly Lys Pro Ile Met Ala Ile Ala Ile Leu Gly Trp
 100 105 110
 Pro Ile Asn Asn Leu Pro Pro Glu Ile Ala Arg Asp Val Ile Glu Gly
 115 120 125
 Gly Arg Phe Ala Cys Gln Gln Ala Gly Ile Ala Leu Ala Gly Gly His
 130 135 140
 Ser Ile Asp Ala Pro Glu Pro Ile Phe Gly Leu Ala Val Thr Gly Val
 145 150 155 160
 Val Pro Thr Glu Arg Val Lys Arg Asn Ser Thr Ala Gln Pro Gly Cys
 165 170 175
 Lys Leu Phe Leu Thr Lys Pro Leu Gly Ile Gly Val Leu Thr Thr Ala
 180 185 190
 Glu Lys Lys Ser Leu Leu Lys Pro Glu His Ile Gly Leu Ala Thr Glu
 195 200 205
 Val Met Cys Gln Met Asn Leu Ala Gly Ala Ala Phe Ala Asn Ile Asp
 210 215 220
 Gly Val Lys Ala Met Thr Asp Val Thr Gly Phe Gly Leu Leu Gly His
 225 230 235 240
 Leu Ser Glu Val Cys Gln Gly Ala Gly Val Gln Ala Gln Val Arg Tyr
 245 250 255
 Gln Asp Val Pro Lys Leu Pro Gly Val Glu Glu Tyr Ile Ala Gln Gly
 260 265 270
 Ala Leu Pro Gly Gly Thr Gln Arg Asn Phe Ala Ser Tyr Gly His Leu
 275 280 285
 Met Gly Glu Met Pro Glu Ala Trp Arg Asn Leu Leu Cys Asp Pro Gln
 290 295 300
 Thr Ser Gly Gly Leu Leu Leu Ala Val Thr Pro Glu Ala Glu Ala Asp
 305 310 315 320
 Val Gln Ala Thr Ala Ala Glu Phe Gly Ile Thr Leu Thr Ala Ile Gly
 325 330 335
 Glu Leu Val Thr Ala Arg Gly Gly Arg Pro Met Ile Glu Ile Arg
 340 345 350

<210> 9384

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9384

Arg Asp Thr Leu Lys Ile Pro Ser Gly Ser Thr Val Ile Asp Ile Asn
 1 5 10 15
 Asp Ala Lys Glu Thr Lys Ser Met Asn Arg Tyr Ala Met Ala Ala Leu
 20 25 30
 Cys Leu Met Val Ser Ala Gly Ala Gln Ala Asp Arg Ile Arg Pro Asp
 35 40 45
 Val Glu Val Asn Val Pro Pro Glu Val Phe Ser Ala Gly Gly Gln Arg


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<210> 9385
<211> 380
<212> PRT
<213> Enterobacter cloacae
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<400>	9385														
Arg 1	Gly	Ala	Leu	Cys 5	Pro	Cys	Ala	Asp 10	Arg	Gln	Arg	Gly	Arg	Gly 15	Gln
Asn	Trp	Leu	Arg 20	Ser	Phe	Cys	Ala	Gly 25	Leu	Arg	Thr	Gly	Glu 30	Val	Arg
Gly	Val	Ile 35	Met	Met	Val	Ile	Arg 40	Pro	Val	Ala	His	Gly 45	Asp	Leu	Ala
Gly	Leu	Met 50	Gln	Leu	Ala	Gly 55	Lys	Thr	Gly	Gly	Gly 60	Leu	Thr	Ser	Leu
Pro 65	Ala	Asp	Glu	Lys	Thr 70	Leu	Ser	Ala	Arg	Ile 75	Glu	Arg	Ala	Leu	Gln 80
Thr	Trp	Gln	Gly	Thr 85	Leu	Pro	Lys	Ser	Glu 90	Gln	Gly	Tyr	Val	Phe 95	Val
Leu	Glu	Asp	Thr 100	Asp	Thr	Gly	Thr	Val 105	Ala	Gly	Ile	Cys	Ala 110	Ile	Glu
Val	Ala	Val 115	Gly	Leu	Asn	Asp	Pro 120	Trp	Tyr	Asn	Tyr	Arg	Val 125	Gly	Thr
Met	Val 130	His	Ala	Ser	Lys	Glu 135	Leu	Asn	Val	Tyr	Asn 140	Ala	Leu	Pro	Thr
Leu 145	Phe	Leu	Cys	Asn 150	Asp	His	Thr	Gly	Ala	Ser 155	Glu	Leu	Cys	Thr	Leu 160
Phe	Leu	Asp	Pro	Asp 165	Trp	Arg	Lys	Glu	Gly 170	Asn	Gly	Tyr	Leu	Leu 175	Ser
Lys	Ser	Arg	Phe 180	Met	Phe	Met	Ala	Ala 185	Phe	Arg	Asp	Arg	Phe 190	Asn	Glu
Lys	Val	Val 195	Ala	Glu	Met	Arg	Gly 200	Val	Ile	Asp	Glu	Thr 205	Gly	Tyr	Ser
Pro	Phe 210	Trp	Glu	Ser	Leu	Gly 215	Glu	Arg	Phe	Phe 220	Ser	Met	Glu	Phe	Ser
Arg 225	Ala	Asp	Tyr	Leu	Cys 230	Gly	Thr	Gly	Gln	Lys 235	Ala	Phe	Ile	Ala	Glu 240
Leu	Met	Pro	Lys	His 245	Pro	Ile	Tyr	Thr	His	Phe 250	Leu	Thr	Pro	Glu	Ala 255
Gln	Ala	Val 260	Ile	Gly	Glu	Val	His	Pro 265	Gln	Thr	Ala	Pro	Ala 270	Arg	Ala
Val	Leu	Glu 275	Lys	Glu	Gly	Phe	Arg	Tyr 280	Arg	Asn	Tyr	Val	Asp 285	Ile	Phe
Asp	Gly 290	Gly	Pro	Thr	Leu	Glu 295	Cys	Asp	Ile	Asp	Arg	Val	Arg	Ala	Ile
Arg 305	Lys	Ser	Arg	Leu	Val	Glu 310	Val	Ser	Glu	Cys 315	Gln	Pro	Ala	Pro	Gly 320
Glu	Trp	Pro	Ala	Cys 325	Leu	Val	Ser	Asn	Glu 330	Asn	Tyr	Thr	Asn	Phe 335	Arg
Ala	Met	Leu	Val 340	Arg	Thr	Asn	Pro	Ser	Cys 345	Glu	Arg	Leu	Val	Leu	Thr
Ala	Ala	Gln	Leu	Asp	Ala	Leu	Lys	Cys	Asn	Ala	Gly	Asp	Thr	Val	Arg

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<210> 9386
<211> 453
<212> PRT
<213> Enterobacter cloacae
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<400>	9386														
Ile	Arg	Gly	Trp	Ile	Leu	Leu	Arg	Val	Thr	Pro	Met	Lys	Ala	Arg	Glu
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Val	Asn	Phe	Asp	Gly	Leu	Val	Gly	Leu	Thr	His	His	Tyr	Ala	Gly	Leu
			20				25						30		
Ser	Phe	Gly	Asn	Glu	Ala	Ser	Thr	Lys	His	Arg	Phe	Gln	Val	Ser	Asn
		35					40					45			
Pro	Lys	Leu	Ala	Ala	Lys	Gln	Gly	Leu	Leu	Lys	Met	Lys	Ala	Leu	Ser
	50					55					60				
Asp	Ala	Gly	Phe	Pro	Gln	Ala	Val	Ile	Pro	Pro	Gln	Glu	Arg	Pro	Asn
65					70					75					80
Val	Ala	Val	Leu	Arg	Gln	Leu	Gly	Phe	Ser	Gly	Thr	Asp	Glu	Gln	Val
				85					90					95	
Val	Glu	Lys	Ala	Gly	Thr	Gln	Thr	Pro	His	Leu	Leu	Ser	Ala	Ala	Ser
			100					105					110		
Ser	Ala	Ser	Ser	Met	Trp	Val	Ala	Asn	Ala	Ala	Thr	Val	Ala	Pro	Ser
		115					120					125			
Ala	Asp	Thr	Leu	Asp	Gly	Lys	Val	His	Leu	Thr	Val	Ala	Asn	Leu	Asn
	130					135					140				
Asn	Lys	Phe	His	Arg	Ala	Ser	Glu	Ala	Glu	Thr	Thr	Gly	Arg	Val	Leu
145					150					155					160
Arg	Ala	Ile	Phe	Asn	His	Asp	Ala	His	Phe	Glu	Val	His	Ser	Ala	Leu
				165					170					175	
Pro	Gln	Val	Ala	Met	Phe	Gly	Asp	Glu	Gly	Ala	Ala	Asn	His	Asn	Arg
			180					185					190		
Leu	Gly	Gly	Asp	Tyr	Gly	Glu	Pro	Gly	Leu	Gln	Leu	Phe	Ile	Tyr	Gly
		195					200					205			
Arg	Glu	Glu	Gly	Gly	His	Ala	Ala	Pro	Val	Arg	Tyr	Pro	Ala	Arg	Gln
	210					215					220				
Thr	Leu	Ala	Ala	Ser	Gln	Ala	Val	Ala	Arg	Leu	Asn	Gln	Val	Asn	Pro
225					230					235					240
Ser	Gln	Val	Ile	Phe	Ala	Gln	Gln	Asn	Pro	Gln	Val	Ile	Asp	Gln	Gly
				245					250					255	
Val	Phe	His	Asn	Asp	Val	Ile	Ala	Val	Ser	Asn	Arg	Gln	Val	Leu	Phe
			260					265					270		
Cys	His	Glu	Gln	Ala	Phe	Ala	His	Gln	Glu	Lys	Leu	Leu	Ala	Thr	Leu
		275					280				285				
Arg	Glu	Arg	Val	Pro	Gly	Phe	Met	Pro	Ile	Gln	Val	Pro	Thr	Gln	Ala
	290				295					300					
Val	Ser	Val	Gln	Asp	Ala	Val	Glu	Thr	Tyr	Leu	Phe	Asn	Ser	Gln	Leu
305					310					315					320
Leu	Ser	Arg	Asp	Asp	Gly	Ser	Met	Met	Leu	Val	Leu	Pro	Gln	Glu	Ser
			325						330					335	
Arg	Asn	His	Gln	Gly	Val	Trp	Arg	Tyr	Leu	Ser	Glu	Leu	Val	Gln	Ala
			340					345					350		

5007

				405					410					415	
Leu	Val	Gln	Ala	Asp	Leu	Val	Asp	Pro	Gln	Leu	Leu	Arg	Glu	Gly	Arg
			420					425					430		
Glu	Ala	Leu	Asp	Ala	Leu	Ser	Thr	Ile	Leu	Gln	Leu	Gly	Ser	Val	Tyr
		435					440					445			
Pro	Phe	Gln	Arg												
	450														

<210> 9387
 <211> 325
 <212> PRT
 <213> Enterobacter cloacae

<400> 9387

Gly	Asp	Asp	Met	Glu	Asn	Leu	Leu	Ala	Leu	Thr	Leu	Ala	Glu	Glu	Thr
1				5					10					15	
Pro	Glu	Arg	Gln	Glu	Gly	Ala	Gly	Pro	Ser	Phe	His	Trp	Arg	Trp	Leu
			20					25					30		
Gly	Pro	Gly	Val	Leu	Glu	Leu	Thr	Pro	Thr	Gly	Lys	Tyr	Asn	Leu	Ser
		35					40					45			
Leu	Leu	Leu	Ser	Thr	Gly	Ile	His	Gly	Asn	Glu	Thr	Ala	Pro	Val	Glu
	50					55					60				
Ile	Val	Glu	Leu	Leu	Leu	Arg	Ala	Leu	Tyr	Arg	Ala	Glu	Phe	Thr	Leu
65					70					75					80
His	Cys	Arg	Leu	Leu	Val	Val	Leu	Gly	Asn	Pro	Pro	Ala	Leu	Ala	Gln
			85						90					95	
Asn	Lys	Arg	Tyr	Leu	Val	Ser	Asp	Ile	Asn	Arg	Met	Phe	Gly	Gly	Arg
			100					105					110		
Trp	Ala	Gln	Phe	Pro	Gln	Ser	Asp	Glu	Thr	Thr	Arg	Ala	Gln	Trp	Leu
	115						120					125			
Glu	Lys	Val	Val	Thr	Ala	Phe	Phe	Ala	Gly	Ala	Gly	Glu	Thr	Arg	Trp
	130					135					140				
His	Leu	Asp	Leu	His	Thr	Ala	Ile	Arg	Ala	Ser	Tyr	His	Val	Arg	Phe
145					150					155					160
Gly	Val	Leu	Pro	Gln	Arg	His	Gln	Pro	Trp	Asp	Glu	Ala	Phe	Leu	Thr
			165						170					175	
Trp	Leu	Gly	Asp	Ala	Gly	Leu	Glu	Ala	Leu	Val	Phe	His	Gln	Thr	Pro
		180					185						190		
Gly	Gly	Thr	Phe	Thr	His	Phe	Thr	Cys	Glu	Asn	Val	Gly	Ala	Leu	Ser
	195						200					205			
Cys	Thr	Leu	Glu	Leu	Gly	Lys	Ala	Leu	Pro	Phe	Gly	Gln	Asn	Asp	Leu
	210					215					220				
Thr	Arg	Phe	Thr	Pro	Thr	His	Gln	Ala	Leu	Arg	Ala	Leu	Leu	Ala	Gly
225					230					235					240
Val	Ala	Pro	Glu	Pro	Thr	Arg	Glu	Pro	Val	Val	Arg	Tyr	Arg	Val	Val
				245					250					255	
Gln	Gln	Ile	Thr	Arg	Gln	Ser	Glu	Ala	Phe	Gln	Leu	His	Met	Ala	Pro
		260						265					270		
His	Thr	Leu	Asn	Phe	Thr	Pro	Phe	Arg	Gln	Gly	Val	Leu	Leu	Ala	Glu
	275						280					285			
Asp	Gly	Glu	Thr	Arg	Tyr	Ala	Val	Gln	Lys	Ser	Thr	Glu	Tyr	Val	Leu
	290					295					300				
Phe	Pro	Asn	Pro	Ser	Val	Ala	Phe	Gly	Leu	Arg	Ala	Gly	Leu	Met	Leu
305					310					315					320
Glu	Lys	Met	Pro												
				325											

<210> 9388
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 9388

Asp Arg Arg Ala Pro Val Tyr Lys Ser Glu Asn Ala Val Asp Arg Thr
 1 5 10 15
 Gly Gly Phe Ser Phe Ile Pro Cys Leu Arg Ser Gly Leu Thr Ala Ala
 20 25 30
 Asp Asn Thr Ser Val Lys Met Pro Trp Arg Thr Val Arg Pro Ser Gly
 35 40 45
 Val Val Met Glu Phe Phe Asp Ile Arg Lys Met Pro Val Ser Leu Trp
 50 55 60
 Arg Asn Gly Ala Gly Glu Thr Arg Glu Ile Cys Cys Phe Pro Pro Ala
 65 70 75 80
 Thr Arg Asp Phe Phe Trp Arg Ala Ser Ile Ala Ser Ile Ala Ser Asn
 85 90 95
 Gly Glu Phe Ser Ala Phe Pro Gly Val Asp Arg Val Ile Thr Leu Leu
 100 105 110
 Glu Gly Gly Glu Val Thr Leu Asp Ala Gly Arg Ala Phe Cys His Thr
 115 120 125
 Leu Lys His His Gln Pro Tyr Arg Phe Ala Gly Asp Leu Ala Val Lys
 130 135 140
 Ala Val Leu Thr Glu Gly Gln Met Ser Met Asp Phe Asn Ile Met Thr
 145 150 155 160
 Arg Arg Asp Cys Cys Gln Ala Lys Val Arg Val Ala Thr Arg Thr Phe
 165 170 175
 Thr Thr Phe Ala Ser Arg Gly Gly Val Val Phe Val Leu Ser Gly Ala
 180 185 190
 Trp Gln Leu Gly Asp Lys Leu Leu Thr Ala Asp Gln Gly Ala Ser Trp
 195 200 205
 Glu Ala Gly Ser His Thr Leu Arg Leu Leu Glu Thr Lys Gly Ser Leu
 210 215 220
 Leu Phe Ser Glu Ile Thr Trp Leu Pro Gly His
 225 230 235

<210> 9389

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9389

Gly Tyr Phe Pro Met Ser Lys Val Ile Ala Ser Leu Glu Lys Val Leu
 1 5 10 15
 Leu Pro Phe Ala Val Lys Ile Gly Lys Gln Pro His Val Asn Ala Ile
 20 25 30
 Lys Asn Gly Phe Ile Lys Leu Met Pro Leu Thr Leu Ala Gly Ala Met
 35 40 45
 Phe Val Leu Ile Asn Asn Val Phe Leu Ser Phe Gly Glu Gly Ser Phe
 50 55 60
 Phe Tyr Ser Leu Gly Ile Arg Leu Asp Ala Ser Thr Ile Glu Thr Leu
 65 70 75 80
 Asn Gly Leu Lys Ala Ile Gly Gly Asn Val Tyr Asn Gly Thr Leu Gly
 85 90 95
 Ile Met Ser Leu Met Ala Pro Phe Phe Ile Gly Met Ala Leu Ala Glu
 100 105 110
 Glu Arg Lys Val Asp Pro Leu Ala Ala Gly Leu Leu Ser Ile Ala Ala
 115 120 125
 Phe Met Thr Val Thr Pro Tyr Ser Val Gly Asp Ala Tyr Ala Val Gly
 130 135 140
 Ala Asn Trp Leu Gly Gly Ala Asn Ile Ile Ser Gly Ile Ile Ile Gly
 145 150 155 160
 Leu Val Val Ala Glu Met Phe Thr Phe Ile Ile Arg Arg Asn Trp Val
 165 170 175

Ile Arg Leu Pro Asp Ser Val Pro Ala Ser Val Ser Arg Ser Phe Ser
 180 185 190
 Ala Leu Ile Pro Gly Phe Ile Ile Leu Ser Ile Met Gly Ile Ile Ala
 195 200 205
 Trp Ala Leu Ser His Trp Gly Thr Asn Phe His Gln Ile Ile Met Asp
 210 215 220
 Ser Ile Ser Thr Pro Leu Ala Ser Met Gly Asn Val Val Gly Trp Ala
 225 230 235 240
 Tyr Val Ile Phe Thr Ser Leu Leu Trp Phe Phe Gly Val His Gly Ser
 245 250 255
 Leu Ala Leu Ala Ala Leu Asp Ser Gly Ile Met Thr Pro Trp Ala Leu
 260 265 270
 Glu Asn Val Ala Leu Tyr Gln Gln Tyr Gly Ser Val Asp Ala Ala Leu
 275 280 285
 Ala Ala Gly Lys Thr Phe His Val Trp Ala Lys Pro Met Leu Asp Ser
 290 295 300
 Tyr Ile Phe Leu Gly Gly Thr Gly Ala Thr Leu Gly Leu Ile Ile Ala
 305 310 315 320
 Val Phe Ile Val Ser Arg Arg Ala Asp His Arg Gln Val Ala Lys Leu
 325 330 335
 Ala Leu Pro Ser Gly Ile Phe Gln Ile Asn Glu Pro Ile Leu Phe Gly
 340 345 350
 Leu Pro Ile Ile Met Asn Pro Val Met Phe Ile Pro Phe Ile Leu Val
 355 360 365
 Gln Pro Leu Leu Ala Ala Ile Thr Leu Thr Ala Tyr Tyr Leu Gly Ile
 370 375 380
 Ile Pro Pro Val Thr Asn Ile Ala Pro Trp Thr Met Pro Ala Gly Leu
 385 390 395 400
 Gly Ala Phe Phe Asn Thr Asn Gly Ser Val Ala Ala Phe Leu Leu Ala
 405 410 415
 Ile Phe Asn Leu Gly Ile Ala Thr Leu Leu Tyr Met Pro Phe Val Ala
 420 425 430
 Ile Ala Asn Lys Ala Ala Thr Val Ile Asp Glu Glu Glu Ser Glu Glu
 435 440 445
 Asp Ile Ala Leu Ala Leu Lys Phe
 450 455

<210> 9390

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 9390

Lys Met Leu Asp Leu Glu Ser Ile Val Ala Glu Glu Thr Ala Glu Asn
 1 5 10 15
 Asp Leu Glu Glu Val Val Met Gly Leu Ile Ile Asn Ser Gly Gln Ala
 20 25 30
 Arg Ser Leu Ala Tyr Ala Ala Leu Lys Gln Ala Lys Gln Gly Asp Phe
 35 40 45
 Val Ala Ala Lys Thr Met Met Glu Gln Ser Arg Thr Ala Leu Asn Glu
 50 55 60
 Ala His Leu Val Gln Thr Lys Leu Ile Glu Ser Asp Gln Gly Glu Gly
 65 70 75 80
 Lys Met Lys Val Ser Leu Val Leu Val His Ala Gln Asp His Leu Met
 85 90 95
 Thr Ser Met Leu Ala Arg Glu Leu Val Ala Glu Leu Ile Glu Leu His
 100 105 110
 Glu Lys Met Gln
 115

<210> 9391

<211> 278
 <212> PRT
 <213> Enterobacter cloacae

<400> 9391

Gln	Glu	Val	Ser	Thr	Met	Glu	Ile	Lys	Thr	Ala	His	Glu	Gln	Gln	Leu
1				5					10					15	
Phe	Asn	Gly	Lys	Asn	Phe	His	Val	Val	Ile	Tyr	Asn	Lys	Thr	Glu	Ser
			20					25					30		
Ala	Ser	Gly	Leu	His	Gln	His	Asp	Tyr	Tyr	Glu	Phe	Thr	Ile	Val	Leu
			35				40					45			
Thr	Gly	Arg	Tyr	Tyr	Gln	Glu	Ile	Asn	Gly	Lys	Arg	Val	Leu	Leu	Glu
	50					55					60				
Arg	Gly	Asp	Phe	Val	Phe	Leu	Pro	Met	Gly	Ser	Tyr	His	Gln	Ser	Phe
65					70					75					80
Tyr	Glu	Phe	Gly	Ala	Thr	Arg	Ile	Leu	Asn	Val	Gly	Val	Ser	Arg	Arg
				85					90					95	
Phe	Phe	Glu	Lys	His	Tyr	Leu	Pro	Leu	Val	Pro	Phe	Cys	Phe	Val	Ala
			100						105					110	
Ser	Gln	Val	Tyr	Arg	Val	Lys	Asn	Glu	Phe	Met	Thr	Trp	Ile	Glu	Thr
			115				120					125			
Val	Ile	Ala	Ser	Leu	Asn	Phe	Arg	Asp	Asn	Glu	Phe	Asp	Glu	Phe	Ile
	130					135					140				
Glu	Thr	Val	Thr	Phe	Tyr	Val	Met	Asn	Arg	Leu	Arg	His	His	Arg	Glu
145					150					155					160
Glu	Gln	Gln	Val	Val	Asp	Asp	Ile	Pro	Gln	Trp	Leu	Arg	Ser	Thr	Val
				165					170					175	
Glu	Leu	Met	His	Asp	Lys	Gly	Gln	Phe	Ser	Asp	Asn	Ala	Leu	Glu	Asn
			180					185					190		
Met	Val	Ala	Leu	Ser	Gly	Lys	Ser	Gln	Glu	Tyr	Leu	Thr	Arg	Ala	Thr
			195				200					205			
Gln	Arg	Tyr	Tyr	Arg	Lys	Thr	Pro	Val	Gln	Ile	Ile	Asn	Glu	Ile	Arg
						215					220				
Ile	Asn	Phe	Ala	Lys	Lys	Gln	Leu	Glu	Ile	Thr	Asn	Tyr	Ser	Val	Thr
225					230					235					240
Asp	Ile	Ala	Tyr	Glu	Ser	Gly	Tyr	Ser	Ser	Pro	Ser	Leu	Phe	Ile	Lys
				245					250					255	
Thr	Phe	Lys	Lys	Leu	Thr	Ser	Phe	Thr	Pro	Asn	Ser	Tyr	Arg	Lys	Asn
			260					265					270		
Leu	Thr	Val	Ile	Asn											
			275												

<210> 9392
 <211> 262
 <212> PRT
 <213> Enterobacter cloacae

<400> 9392

Glu	Thr	Glu	Thr	His	Thr	Pro	Leu	Arg	Gly	Gly	Ala	Met	Glu	Asn	Leu
1				5					10					15	
Leu	Ile	Val	Asn	Ala	Asp	Asp	Phe	Gly	Leu	Ser	Lys	Gly	Gln	Asn	Tyr
			20					25					30		
Gly	Ile	Ile	Glu	Ala	Cys	Arg	Arg	Gly	Val	Val	Thr	Ser	Thr	Thr	Ala
			35				40					45			
Leu	Ile	Asn	Gly	Glu	Ala	Val	Glu	His	Ala	Ala	Gln	Leu	Ser	Arg	Glu
	50					55					60				
Leu	Pro	Glu	Leu	Gly	Val	Gly	Met	His	Phe	Val	Leu	Thr	Leu	Gly	Leu
65					70					75					80
Pro	Leu	Ser	Pro	Met	Pro	Gly	Leu	Thr	Arg	Glu	Gly	Lys	Leu	Gly	Lys
				85					90					95	
Trp	Ile	Trp	Glu	Met	Ala	Glu	Gln	Asp	Ala	Leu	Pro	Leu	Asp	Glu	Ile

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<210> 9393
<211> 89
<212> PRT
<213> Enterobacter cloacae
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<210> 9394
<211> 98
<212> PRT
<213> Enterobacter cloacae
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<400> 9394
Ile Met Ser Ser Gly Asp Ile Thr Arg Tyr Val Val Thr Val Asn Ile
1          5          10          15
His Glu Ala Ser Leu Thr Glu Leu Asn Glu Leu Asn Asn Ala Phe Thr
      20          25          30
Arg Ala Asn Phe Leu Leu Thr Leu Thr Asp Asp Glu Gly Asn Ile His
      35          40          45
Asp Leu Gly Ser Leu Ala Phe Gly Leu Ile Ser Pro Leu Ser Gln Glu
      50          55          60
Glu Val Lys Ala Leu Ala Ser Ser Leu Val Glu Ser Val Thr Asp Lys
65          70          75          80
Ala Thr Glu Ile Asp Val Asp Ser Trp Glu Asn Trp His Lys Lys Glu
      85          90          95
Gln

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<210> 9395
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 9395
 Ser Gly Arg Gln His Gly Arg Asp Ile Met Trp Gln Ala Ile Ser His
 1 5 10 15
 Leu Leu Ser Glu Gln Leu Gly Glu Gly Glu Ile Glu Leu Arg Asn Glu
 20 25 30
 Leu Pro Gly Gly Glu Ile His Ala Ala Trp His Leu Arg Tyr Ala Gly
 35 40 45
 Arg Asp Leu Phe Val Lys Cys Asp Glu Arg Glu Leu Leu Pro Ile Phe
 50 55 60
 Thr Ala Glu Ala Asp Gln Leu Glu Leu Leu Ser Arg Ser Lys Thr Val
 65 70 75 80
 Thr Val Pro Gln Val Leu Ala Val Gly Ser Asp Arg Asp Tyr Ser Phe
 85 90 95
 Leu Val Met Asn Tyr Leu Pro Ala Arg Pro Leu Asp Ala His Asn Ala
 100 105 110
 Phe Ile Leu Gly Gln Gln Thr Ala Arg Leu His Gln Trp Ser Asp Gln
 115 120 125
 Pro Gln Phe Gly Leu Asp Phe Asp Asn Asp Leu Ser Thr Thr Pro Gln
 130 135 140
 Pro Asn Ala Trp Gln Arg Arg Trp Ser Thr Phe Phe Ala Glu Gln Arg
 145 150 155 160
 Ile Gly Trp Gln Leu Glu Leu Ala Ala Glu Lys Gly Leu Ala Phe Gly
 165 170 175
 Asn Ile Asp Ala Ile Val Glu His Ile Gln Gln Arg Leu Ala Ser His
 180 185 190
 Gln Pro Gln Ala Ser Leu Leu His Gly Asp Leu Trp Ser Asn Asn Cys
 195 200 205
 Ala Leu Gly Pro Asp Gly Pro Tyr Ile Tyr Asp Pro Ala Cys Tyr Trp
 210 215 220
 Gly Asp Arg Glu Cys Asp Leu Ala Met Leu Pro Leu His Pro Glu Gln
 225 230 235 240
 Pro Pro Gln Ile Tyr Asp Gly Tyr Gln Ser Val Ser Pro Leu Pro Ala
 245 250 255
 Gly Phe Leu Asp Arg Gln Pro Val Tyr Gln Leu Tyr Thr Leu Leu Asn
 260 265 270
 Arg Ala Ile Leu Phe Gly Gly Ser His Leu Val Asn Ala Gln Arg Ala
 275 280 285
 Leu Asp Arg Ile Leu Ala Ala
 290 295

<210> 9396
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 9396
 Ile Asp Ser Leu Pro Gly Phe Ile Met Thr Ala Glu Gly His Leu Leu
 1 5 10 15
 Phe Ser Leu Ala Cys Ala Val Phe Ala Lys Asn Ala Glu Leu Thr Pro
 20 25 30
 Val Leu Ala Gln Gly Asp Trp Trp His Ile Val Pro Ser Ala Val Leu
 35 40 45
 Thr Cys Leu Leu Pro Asp Ile Asp His Pro Lys Ser Phe Leu Gly Gln
 50 55 60
 Arg Leu Lys Trp Ile Ser Lys Pro Ile Ala Arg Ala Phe Gly His Arg

65					70					75				80	
Gly	Phe	Thr	His	Ser	Leu	Leu	Ala	Val	Phe	Gly	Leu	Leu	Thr	Leu	Phe
				85					90					95	
Tyr	Leu	Lys	Val	Pro	Glu	Ser	Trp	Ile	Val	Pro	Ala	Asp	Ala	Ile	Gln
			100					105					110		
Gly	Met	Val	Leu	Gly	Tyr	Leu	Ser	His	Ile	Leu	Ala	Asp	Met	Leu	Thr
		115					120					125			
Pro	Ala	Gly	Val	Pro	Leu	Leu	Trp	Pro	Cys	Arg	Trp	Arg	Phe	Arg	Leu
		130					135				140				
Pro	Ile	Leu	Val	Pro	Gln	Lys	Gly	Asn	Gln	Leu	Glu	Arg	Val	Leu	Cys
145					150				155						160
Met	Ala	Leu	Phe	Ala	Tyr	Ala	Val	Trp	Met	Pro	Gln	Thr	Leu	Pro	Glu
			165						170					175	
Asn	Gly	Ala	Val	Arg	Trp	Ser	Ser	Gln	Met	Ile	Asn	Ser	Leu	Gln	Phe
			180					185					190		
Gln	Phe	Asn	Arg	Phe	Ile	Asn	His	Gln	Ile	Glu	His				
		195					200					205			

<210> 9397

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 9397

Gly	Phe	Gln	Glu	Arg	Thr	Lys	Glu	Asn	Arg	Ala	Met	Ser	Asn	Asn	Asp
1				5					10					15	
Lys	Pro	His	Gln	Ser	Pro	Ile	His	Gly	Thr	Glu	Glu	Ser	Gln	Pro	Gly
			20					25					30		
Met	Asp	Ser	Leu	Ala	Pro	Ala	Asp	Gly	Ser	His	Lys	Pro	Ser	Pro	Gly
		35					40					45			
Leu	Ser	Ala	Pro	Gly	Glu	Gln	Pro	Thr	Ala	Pro	Gly	Ser	Met	Lys	Ser
	50					55					60				
Pro	Asp	Ala	Asp	Asn	Glu	Lys	Leu	Lys	Ser	Leu	Asp	Pro	His	Arg	Lys
65					70				75						80
Gly	Gly	Glu	Gly	Tyr	Ala	Leu	Thr	Thr	Asn	Gln	Gly	Val	Arg	Ile	Ala
			85						90					95	
Asp	Asp	Gln	Asn	Ser	Leu	Arg	Ala	Gly	Thr	Arg	Gly	Pro	Thr	Leu	Leu
		100						105				110			
Glu	Asp	Phe	Ile	Leu	Arg	Glu	Lys	Ile	Thr	His	Phe	Asp	His	Glu	Arg
		115					120					125			
Ile	Pro	Glu	Arg	Ile	Val	His	Ala	Arg	Gly	Ser	Ala	Ala	His	Gly	Tyr
	130					135					140				
Phe	Gln	Pro	Tyr	Lys	Ser	Leu	Lys	Glu	Ile	Thr	Lys	Ala	Asp	Phe	Leu
145					150				155						160
Ser	Asp	Pro	Asn	Lys	Ile	Thr	Pro	Val	Phe	Val	Arg	Phe	Ser	Thr	Val
			165						170					175	
Gln	Gly	Gly	Ala	Gly	Ser	Ala	Asp	Thr	Val	Arg	Asp	Ile	Arg	Gly	Leu
		180						185				190			
Ala	Thr	Lys	Phe	Tyr	Thr	Glu	Glu	Gly	Ile	Phe	Asp	Leu	Val	Gly	Asn
		195					200					205			
Asn	Thr	Pro	Val	Phe	Phe	Ile	Gln	Asp	Ala	His	Lys	Phe	Pro	Asp	Phe
	210					215					220				
Val	His	Ala	Val	Lys	Pro	Glu	Pro	His	Trp	Ala	Ile	Pro	Gln	Gly	Gln
225					230				235						240
Ser	Ala	His	Asp	Thr	Phe	Trp	Asp	Tyr	Val	Ser	Leu	Gln	Pro	Glu	Thr
			245						250					255	
Leu	His	Asn	Val	Met	Trp	Ala	Met	Ser	Asp	Arg	Gly	Ile	Pro	Arg	Ser
		260						265				270			
Tyr	Arg	Thr	Met	Glu	Gly	Phe	Gly	Ile	His	Thr	Phe	Arg	Leu	Ile	Asn
		275					280					285			
Ala	Glu	Gly	Lys	Ala	Thr	Phe	Val	Arg	Phe	His	Trp	Lys	Pro	Val	Ala

290					295					300					
Gly	Lys	Ala	Ser	Leu	Val	Trp	Asp	Glu	Ala	Gln	Lys	Leu	Thr	Gly	Arg
305					310					315					320
Asp	Pro	Asp	Phe	His	Arg	Arg	Glu	Leu	Trp	Glu	Ser	Ile	Glu	Ala	Gly
				325					330					335	
Asp	Phe	Pro	Glu	Tyr	Glu	Leu	Gly	Leu	Gln	Leu	Ile	Pro	Glu	Glu	Asp
			340					345					350		
Glu	Phe	Lys	Phe	Asp	Phe	Asp	Leu	Leu	Asp	Pro	Thr	Lys	Leu	Ile	Pro
		355					360					365			
Glu	Glu	Leu	Val	Pro	Val	Gln	Leu	Val	Gly	Lys	Met	Val	Leu	Asn	Arg
		370				375					380				
Asn	Pro	Asp	Asn	Phe	Phe	Ala	Glu	Asn	Glu	Gln	Ala	Ala	Phe	His	Pro
385				390						395					400
Gly	His	Ile	Val	Pro	Gly	Leu	Asp	Phe	Thr	Asn	Asp	Pro	Leu	Leu	Gln
			405						410					415	
Gly	Arg	Leu	Phe	Ser	Tyr	Thr	Asp	Thr	Gln	Ile	Ser	Arg	Leu	Gly	Gly
			420					425					430		
Pro	Asn	Phe	His	Glu	Ile	Pro	Ile	Asn	Arg	Pro	Thr	Cys	Pro	Tyr	His
		435					440					445			
Asn	Phe	Gln	Arg	Asp	Gly	Met	His	Arg	Gln	Asp	Ile	Asp	Thr	Asn	Pro
		450				455					460				
Ala	Asn	Tyr	Glu	Pro	Asn	Ser	Ile	Asn	Asp	Asn	Trp	Pro	Arg	Glu	Thr
465				470						475					480
Pro	Pro	Gly	Pro	Lys	Arg	Gly	Gly	Phe	Glu	Ser	Tyr	Gln	Glu	Arg	Val
			485						490					495	
Asp	Gly	Thr	Lys	Ile	Arg	Glu	Arg	Ser	Pro	Ser	Phe	Gly	Glu	Tyr	Tyr
			500					505					510		
Ala	Gln	Pro	Arg	Leu	Phe	Trp	Asn	Ser	Gln	Thr	Pro	Ile	Glu	Gln	Gln
		515					520					525			
His	Ile	Ile	Gly	Gly	Phe	Ser	Phe	Glu	Leu	Ser	Lys	Val	Val	Arg	Thr
		530				535					540				
Tyr	Ile	Arg	Glu	Arg	Val	Val	Asp	His	Leu	Ala	His	Ile	Asp	Ile	Gln
545				550						555					560
Leu	Ala	Gln	Gly	Val	Ala	Asn	Asn	Leu	Gly	Ile	Thr	Leu	Thr	Asp	Glu
			565						570					575	
Gln	Cys	His	Ala	Ala	Pro	Pro	Lys	Asp	Val	Asn	Gly	Leu	Lys	Lys	Asp
			580					585					590		
Pro	Ser	Leu	Ser	Leu	Tyr	Ala	Val	Pro	Gly	Gly	Ser	Ile	Lys	Gly	Arg
		595					600					605			
Val	Val	Ala	Ile	Leu	Leu	Asn	Asp	Lys	Pro	Arg	Ala	Ser	Asp	Val	Leu
		610				615					620				
Gly	Ile	Met	Arg	Ala	Leu	Lys	Thr	Gln	Gly	Val	His	Ala	Lys	Leu	Leu
625				630						635					640
Tyr	Ser	Arg	Met	Gly	Glu	Val	Thr	Ala	Asp	Asp	Gly	Ser	Val	Leu	Pro
			645						650					655	
Ile	Ala	Ala	Thr	Phe	Ala	Gly	Ala	Pro	Ser	Leu	Thr	Val	Asp	Ala	Val
			660					665					670		
Ile	Met	Pro	Cys	Gly	Asp	Val	Glu	Ser	Leu	Leu	Gly	Asn	Gly	Asp	Ala
		675					680					685			
Ala	Tyr	Tyr	Leu	Leu	Glu	Ala	Tyr	Lys	His	Leu	Lys	Pro	Ile	Ala	Leu
		690				695					700				
Ala	Gly	Asp	Ala	Arg	Lys	Phe	Lys	Thr	Leu	Leu	Lys	Val	Pro	Asp	Gln
705				710						715					720
Gly	Glu	Glu	Gly	Ile	Val	Glu	Gly	Asp	Asn	Val	Asp	Asp	Ala	Phe	Met
			725						730					735	
Thr	Arg	Leu	Phe	Asp	Leu	Leu	Ala	Ala	His	Arg	Val	Trp	Ser	Arg	Ser
			740					745					750		
Ser	Lys	Ile	Asp	Gln	Ile	Pro	Ala								
		755				760									

<211> 317
 <212> PRT
 <213> Enterobacter cloacae

<400> 9398

Pro	Pro	Pro	Gly	Ser	Phe	Leu	Thr	Thr	Glu	His	Leu	Leu	His	Cys	Met
1				5					10					15	
Pro	Glu	Gln	Tyr	Met	Glu	Gln	Tyr	Val	Ser	Arg	Arg	Gln	Ser	Ala	Pro
		20					25					30			
Arg	Leu	Glu	Phe	Glu	Ala	Ala	Ala	Ile	Tyr	Glu	Tyr	Pro	Glu	His	Leu
	35						40					45			
Arg	Pro	Trp	Leu	Glu	Ala	Leu	Pro	Lys	Gln	Pro	Gly	Val	Tyr	Phe	Phe
	50					55					60				
His	Gly	Asp	Ser	Asp	Thr	Met	Pro	Leu	Tyr	Ile	Gly	Lys	Ser	Val	Asn
65				70					75						80
Ile	Arg	Ser	Arg	Val	Met	Ser	His	Leu	Arg	Thr	Pro	Asp	Glu	Ala	Ser
			85					90						95	
Met	Leu	Arg	Gln	Ser	Arg	Arg	Ile	Thr	Trp	Ile	Glu	Thr	Ala	Gly	Glu
			100					105					110		
Leu	Gly	Ala	Leu	Leu	Leu	Glu	Ala	Arg	Leu	Ile	Lys	Glu	Gln	Gln	Pro
	115						120					125			
Leu	Phe	Asn	Lys	Arg	Leu	Arg	Arg	Asn	Arg	Gln	Leu	Cys	Ser	Leu	Gln
	130					135					140				
Val	Asn	Ala	Gly	Lys	Pro	Gln	Val	Val	Tyr	Ala	Arg	Glu	Val	Asp	Phe
145				150					155						160
Ser	His	Glu	Pro	Asn	Leu	Tyr	Gly	Leu	Phe	Ala	Asn	Lys	Arg	Ala	Ala
			165					170						175	
Leu	Gln	Thr	Leu	Gln	Ser	Leu	Ala	Asp	Glu	Leu	Gln	Leu	Cys	Tyr	Gly
	180							185					190		
Leu	Leu	Gly	Leu	Glu	Ala	Thr	Thr	Arg	Gly	Arg	Ala	Cys	Phe	Arg	Ser
	195						200					205			
Ala	Leu	Lys	Arg	Cys	Ala	Gly	Ala	Cys	Cys	Gly	Lys	Glu	Ser	Val	Glu
	210					215					220				
Glu	His	His	Ala	Arg	Phe	Met	Ala	Gly	Leu	Ala	Ser	Ile	Ser	Val	Asn
225				230					235						240
Cys	Trp	Pro	Trp	Glu	Gly	Ala	Val	Ala	Leu	Lys	Glu	Thr	Arg	Asp	Ala
			245					250						255	
Met	Thr	His	Tyr	His	Ile	Ile	Arg	Asn	Trp	Leu	Trp	Leu	Gly	Ala	Val
		260					265						270		
Glu	Ser	Leu	Asp	Asp	Ala	Thr	Ala	Leu	Leu	Arg	Thr	Pro	Ala	Gly	Phe
	275						280					285			
Asp	Gln	Asp	Gly	Tyr	Lys	Ile	Leu	Cys	Lys	Pro	Leu	Leu	Thr	Gly	Lys
	290					295					300				
Tyr	Glu	Ile	Ile	Val	Leu	Ser	Asp	Pro	Ala	Ala	Arg				
305					310						315				

<210> 9399
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 9399

Pro	Val	Ser	Arg	Pro	Pro	Cys	Thr	Arg	Phe	Ser	Thr	Pro	Gly	Gly	Ser
1				5					10					15	
Pro	Ala	Cys	Ser	Gln	Ser	Phe	Thr	Thr	Ala	Ser	Pro	Val	Lys	Gly	Val
		20					25					30			
Asn	Ser	Leu	Gly	Leu	Lys	Met	Thr	Val	Phe	Pro	Ala	Ser	Ser	Ala	Gly
	35					40					45				
Thr	Met	Cys	Pro	Phe	Gly	Arg	Cys	Pro	Gly	Lys	Leu	Tyr	Gly	Pro	Asn
	50					55					60				
Thr	Ala	Ser	Thr	Pro	Cys	Gly	Arg	Trp	Arg	Ser	Val	Ala	Ala	Pro	Ser

65					70					75				80	
Gly	Ile	Ser	Val	Cys	Cys	Ser	Pro	Val	Arg	Val	Trp	Tyr	Ala	Phe	Thr
				85					90					95	
Asp	Ile	Ala	Ile	Leu	Leu	Ile	Ile	Ala	Val	Thr	Ser	Val	Val	Ala	Ser
			100					105					110		
Gln	Arg	Gly	Leu	Leu	Val	Ser	Gln	Ala	Met	Met	Arg	Val	Ser	Ser	Ala
		115					120					125			
Leu	Leu	Ala	Ser	Ser	Ser	Ala	Ala	Asn	Phe	Ser	Thr	Ser	Ala	Trp	Arg
		130				135					140				
Ser	Glu	Asn	Gly	Arg	Phe	Ala	His	Ala	Gly	Asn	Ala	Arg	Arg	Ala	Ala
145					150					155					160

<210> 9400

<211> 515

<212> PRT

<213> Enterobacter cloacae

<400> 9400

Arg	Pro	Gly	Ala	Gly	Met	Ala	Ser	Pro	Leu	Arg	Asn	Pro	Leu	Ser	Gly
1				5					10					15	
Leu	Val	Trp	Ala	Ala	Met	Ala	Val	Ile	Tyr	Leu	Pro	Leu	Leu	Pro	Ala
			20					25				30			
Ser	Gly	Met	Leu	Leu	Ala	Pro	Ala	Phe	Ser	Pro	Gly	Asn	Trp	Ala	Thr
		35					40					45			
Leu	Phe	Ala	Asp	Pro	Gln	Leu	Pro	Gln	Ala	Leu	Ala	Ala	Thr	Leu	Val
	50					55				60					
Ser	Ala	Leu	Ile	Ala	Thr	Leu	Gly	Ser	Leu	Phe	Ile	Ala	Leu	Thr	Leu
65					70					75					80
Leu	Ala	Leu	Leu	Trp	Pro	Gly	Glu	Gly	Trp	Gln	Arg	Leu	Ser	Thr	Arg
				85					90					95	
Leu	Pro	Trp	Leu	Leu	Ala	Val	Pro	His	Val	Ala	Phe	Ala	Thr	Ser	Ala
			100					105					110		
Leu	Leu	Leu	Phe	Ala	Glu	Gly	Gly	Gln	Phe	Tyr	Arg	Ile	Cys	Thr	Val
		115				120						125			
Cys	Ser	Pro	Gln	Leu	Asp	Arg	Tyr	Gly	Ile	Gly	Leu	Gly	Leu	Thr	Leu
	130					135					140				
Ala	Val	Lys	Glu	Ser	Ala	Phe	Val	Leu	Trp	Thr	Ile	Tyr	Ala	Ala	Leu
145					150					155					160
Pro	Glu	Lys	Arg	Leu	Val	Gln	Gln	Lys	Ile	Val	Leu	His	Thr	Phe	Gly
				165					170					175	
Tyr	Gly	Arg	Met	Gln	Ala	Leu	Asn	Trp	Leu	Ile	Leu	Pro	Ala	Ile	Ala
			180					185					190		
Pro	Ala	Leu	Gly	Ala	Val	Met	Leu	Ala	Val	Leu	Ala	Trp	Ser	Leu	Ser
		195					200					205			
Val	Val	Asp	Val	Ala	Ile	Val	Leu	Gly	Pro	Gly	Asn	Pro	Pro	Thr	Leu
	210					215					220				
Ala	Val	Leu	Ala	Trp	Gln	Trp	Leu	Thr	Gln	Gly	Asp	Ala	Gln	Gln	Gln
225					230					235					240
Thr	Lys	Gly	Thr	Leu	Leu	Cys	Leu	Val	Leu	Leu	Leu	Leu	Leu	Ala	Ala
				245					250					255	
Leu	Ala	Ala	Val	Gly	Tyr	Gly	Phe	Trp	Thr	Ala	Trp	Arg	Arg	Ala	Gln
			260					265					270		
Pro	Ala	Pro	Ser	Gly	Val	Arg	Arg	Ala	Ser	His	Ser	Ala	Leu	Pro	Ala
		275					280					285			
Arg	Thr	Leu	Gly	Gly	Leu	Leu	Pro	Leu	Cys	Gly	Val	Leu	Cys	Ala	Leu
		290				295					300				
Val	Leu	Leu	Met	Leu	Ala	Arg	Arg	Asp	Asp	Ile	Gly	Pro	Val	Ser	Asp
305					310					315					320
Ser	Leu	Ser	Leu	Gly	Leu	Leu	Ser	Ser	Leu	Thr	Ala	Leu	Ala	Ile	Leu

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<210> 9401
<211> 468
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Arg	Phe	Leu 5	Ala	Gly	Asn	Asn	Val	Leu 10	Thr	Gln	Cys	Phe	Trp 15	Leu
Gln	Glu	Arg	Arg 20	Gln	Cys	Pro	Pro	Leu 25	Leu	Met	Thr	Ser	Gly 30	Phe	Ser
Met	Lys	Arg 35	Val	Ser	Gln	Leu	Thr 40	Ala	Leu	Ala	Leu	Ile 45	Cys	Gly	Leu
Ala	Ser 50	Leu	Ser	Ser	Thr	Ala 55	Ala	Asp	Met	Pro	His 60	Ser	Leu	Thr	Leu
Ala 65	Gln	Leu	Gln	Thr 70	Gln	Asn	Gly	Ala	Val	Ile 75	Asp	Thr	Arg	Ile	Ser 80
Ala	Phe	Tyr	Asn 85	Gly	Trp	Pro	Gln	Thr	Leu 90	Ser	Gly	Thr	Ser	Gly 95	His
Glu	Pro	Ala 100	Ala	Leu	Asn	Leu	Ser	Ala 105	Ser	Trp	Leu	Gly	Ala 110	Met	Ser
Asp	Glu	Gln 115	Leu	Ser	Gly	Trp	Ala 120	Lys	Gln	His	Arg	Leu	Thr 125	Pro	Asp
Met	Pro 130	Val	Ala	Leu	Tyr	Gly 135	Asn	Asp	Asn	Asp	Asn	Gln	Thr 140	Val	Lys
Thr 145	Arg	Leu	Glu	Lys 150	Ala	Gly	Phe	Thr	His 155	Val	Ser	Thr	Leu	Ser	Asp 160
Ala	Leu	Gln	Gln 165	Ser	Asp	Arg	Leu	Gln	Arg 170	Leu	Ala	His	Phe	Glu	Gln
Leu	Val	Tyr 180	Pro	Gln	Trp	Ile	Arg	Gln 185	Leu	Gln	Gln	Gly	Lys 190	Pro	Val
Thr	Ala 195	Ala	Pro	Ala	Gly	Glu	Trp 200	Lys	Val	Ile	Glu	Ala 205	Gly	Trp	Gly
Thr	Pro 210	Lys	Leu	Tyr	Leu	Leu 215	Ser	His	Ile	Pro	Asp	Ala 220	Gly	Tyr	Ile
Asp	Thr	Asn	Glu	Val	Glu	Ser	Glu	Pro	Leu	Trp	Asn	Lys	Val	Ser	Asp

225 230 235 240
 Glu Lys Leu Lys Ala Met Leu Ala Lys His Gly Ile Arg His Asp Thr
 245 250 255
 Thr Val Ile Leu Tyr Gly Arg Asp Val Tyr Ala Ala Ala Arg Val Ala
 260 265 270
 Gln Ile Met Leu Tyr Ala Gly Val Arg Asp Val Arg Ile Leu Asp Gly
 275 280 285
 Gly Trp Lys Ala Trp Ser Asp Ala Ser Leu Pro Val Glu Arg Gly Thr
 290 295 300
 Pro Ala Asn Val Lys Pro Ala Pro Asp Phe Gly Ala Pro Ile Pro Gly
 305 310 315 320
 Gln Pro Gln Leu Met Val Asp Met Glu Gln Ala Arg Gly Met Leu His
 325 330 335
 Arg Gln Asp Ala Ser Leu Val Ser Ile Arg Ser Trp Pro Glu Phe Ile
 340 345 350
 Gly Glu Thr Ser Gly Tyr Ser Tyr Ile Lys Pro Lys Gly Glu Ile Ala
 355 360 365
 Gly Ala Arg Trp Gly His Ala Gly Ser Asp Ala Thr His Met Glu Asp
 370 375 380
 Phe His Asn Pro Asp Gly Thr Met Arg Ser Ala Asp Asp Ile Ala Ala
 385 390 395 400
 Met Trp Lys Thr Trp Asn Ile Leu Pro Glu Gln His Val Ala Phe Tyr
 405 410 415
 Cys Gly Thr Gly Trp Arg Ala Ser Glu Ala Phe Met Tyr Ala Arg Ala
 420 425 430
 Met Gly Trp Gln Asn Val Ala Val Tyr Asp Gly Gly Trp Tyr Glu Trp
 435 440 445
 Ser Ser His Pro Gln Asn Pro Val Ser Thr Gly Glu Arg Gly Pro Glu
 450 455 460
 Ser Ala Arg
 465

<210> 9402

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9402

Leu Leu Thr Asn Met Leu Lys Thr Leu Asp Val Val Ala Ala Ile Leu
 1 5 10 15
 Glu Asn Glu Gly Lys Ile Leu Leu Ala Gln Arg Pro Glu His Ala Asp
 20 25 30
 Gln Pro Gly Met Trp Glu Phe Ala Gly Gly Lys Val Glu Ala Gly Glu
 35 40 45
 Thr Gln Pro Glu Ala Leu Ile Arg Glu Leu Arg Glu Glu Leu Gly Ile
 50 55 60
 Glu Ala Val Pro Ala Arg Tyr Val Ala Ser His Gln Arg Glu Val Ser
 65 70 75 80
 Gln Arg Leu Ile His Leu His Ala Trp His Val Pro Glu Phe Ser Gly
 85 90 95
 Glu Leu Lys Ala His Tyr His Ser Ala Leu Val Trp Cys Thr Pro Glu
 100 105 110
 Asp Ala Phe Thr Tyr Asp Leu Ala Pro Ala Asp Ile Pro Leu Leu Glu
 115 120 125
 Ala Phe Ile Leu Leu Arg Asp Ala Arg Pro Ala Gly Leu Tyr
 130 135 140

<210> 9403

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9403

Arg Ile Asp Cys Pro Pro Ser Ala Trp Gly Val Thr Leu Phe Gln Ala
 1 5 10 15
 Ala Ser Ala Ala Cys Pro Ala Lys Ser Lys Gln Arg Phe Thr Leu Phe
 20 25 30
 Ala Phe Leu Ile Pro Asp Ser Tyr Ser Tyr Val Gln Asn Asp Asn Asn
 35 40 45
 Leu Thr Ser Glu Ala Arg Met Ile Leu Asp Ala Phe Thr Leu Ala Gly
 50 55 60
 Lys Val Ala Met Val Thr Gly Cys Asp Thr Gly Leu Gly Gln Gly Met
 65 70 75 80
 Ala Ile Ala Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Val Asn Arg
 85 90 95
 Lys Val Pro Asp Glu Thr Ala Ala Arg Val Thr Ala Leu Gly Arg Arg
 100 105 110
 Phe Ile Ala Ile Arg Ala Asp Leu Gly Lys Gln Glu Ser Ile Gln Ser
 115 120 125
 Val Val Asp Thr Ala Val Ala Glu Met Gly Arg Ile Asp Ile Leu Val
 130 135 140
 Asn Asn Ala Gly Thr Ile Arg Arg Ala Asp Ala Leu Glu Phe Ser Glu
 145 150 155 160
 Lys Asp Trp Asp Glu Val Ile Asp Leu Asn Leu Lys Ser Val Phe Phe
 165 170 175
 Leu Ser Gln Ala Val Ala Lys Gln Phe Ile Ala Gln Gly Gln Gly Gly
 180 185 190
 Lys Ile Ile Asn Ile Ala Ser Met Leu Ser Phe Gln Gly Gly Ile Arg
 195 200 205
 Val Pro Ser Tyr Thr Ala Ser Lys Ser Gly Val Leu Gly Leu Thr Arg
 210 215 220
 Leu Leu Ala Asn Glu Trp Ala Thr Leu Gly Ile Asn Val Asn Ala Ile
 225 230 235 240
 Ala Pro Gly Tyr Met Val Thr Asn Asn Thr Arg Gln Leu Arg Asp Asp
 245 250 255
 Glu Gln Arg Ser Gln Ala Ile Leu Asp Arg Ile Pro Ala Gly Arg Trp
 260 265 270
 Gly Leu Pro Glu Asp Leu Gln Gly Pro Val Val Phe Leu Ala Ser Arg
 275 280 285
 Ala Ser Asp Tyr Val Asn Gly His Thr Leu Ala Val Asp Gly Gly Trp
 290 295 300
 Leu Ala Arg
 305

<210> 9404

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 9404

Ile Arg Arg Thr Gly Met Asn Phe Pro Leu Ile Ala Asn Ile Val Val
 1 5 10 15
 Phe Val Val Leu Leu Leu Leu Leu Ala Gln Ala Arg His Lys Gln Trp
 20 25 30
 Ser Leu Ala Lys Lys Val Leu Val Gly Leu Val Met Gly Val Val Phe
 35 40 45
 Gly Leu Ala Leu His Ala Ile Tyr Gly Ser Asp Ser Pro Val Leu Lys
 50 55 60
 Asp Ser Ile Gln Trp Phe Asn Ile Val Gly Asn Gly Tyr Val Gln Leu
 65 70 75 80
 Leu Gln Met Ile Val Met Pro Leu Val Phe Ala Ser Ile Leu Ser Ala
 85 90 95

Val Ala Arg Leu His Asn Ala Ser Gln Leu Gly Lys Ile Ser Phe Leu
 100 105 110
 Thr Ile Gly Thr Leu Leu Phe Thr Thr Leu Ile Ala Ala Leu Val Gly
 115 120 125
 Val Leu Val Thr Asn Leu Phe Gly Leu Thr Ala Glu Gly Leu Val Gln
 130 135 140
 Gly Ser Ala Glu Thr Ala Arg Leu Thr Ala Ile Glu Thr Asn Tyr Val
 145 150 155 160
 Gly Lys Val Ala Asp Leu Thr Val Pro Gln Met Val Leu Ser Phe Ile
 165 170 175
 Pro Lys Asn Pro Phe Ala Asp Leu Thr Gly Ala Ser Pro Thr Ser Ile
 180 185 190
 Ile Ser Val Val Ile Phe Ala Ala Phe Leu Gly Val Ala Ala Leu Lys
 195 200 205
 Leu Leu Lys Asp Asp Ala Pro Lys Gly Glu Arg Val Leu Thr Ala Ile
 210 215 220
 Asp Thr Leu Gln Ser Trp Val Met Lys Leu Val Arg Leu Val Met Gln
 225 230 235 240
 Leu Thr Pro Tyr Gly Val Leu Ala Leu Met Thr Lys Val Val Ala Gly
 245 250 255
 Ser Asn Leu Gln Asp Ile Ile Lys Leu Gly Ser Phe Val Ile Ala Ser
 260 265 270
 Tyr Leu Gly Leu Gly Ile Met Phe Val Val His Gly Ile Leu Leu Gly
 275 280 285
 Val Asn Gly Val Gly Pro Leu Lys Tyr Phe Arg Lys Val Trp Pro Val
 290 295 300
 Leu Thr Phe Ala Phe Thr Ser Arg Ser Ser Ala Ala Ser Ile Pro Leu
 305 310 315 320
 Asn Val Glu Ala Gln Thr Arg Arg Leu Gly Val Pro Glu Ser Ile Ala
 325 330 335
 Ser Phe Ser Ala Ser Phe Gly Ala Thr Ile Gly Gln Asn Gly Cys Ala
 340 345 350
 Gly Leu Tyr Pro Ala Met Leu Ala Val Met Val Ala Pro Thr Val Gly
 355 360 365
 Ile Asn Pro Leu Asp Pro Val Trp Ile Ala Thr Leu Val Gly Ile Val
 370 375 380
 Thr Ile Ser Ser Ala Gly Val Ala Gly Val Gly Gly Ala Thr Phe
 385 390 395 400
 Ala Ala Leu Ile Val Leu Pro Ala Leu Gly Leu Pro Val Thr Leu Val
 405 410 415
 Ala Leu Leu Ile Ser Val Glu Pro Leu Ile Asp Met Gly Arg Thr Ala
 420 425 430
 Leu Asn Val Ser Gly Ser Met Thr Ala Gly Thr Leu Thr Ser Gln Trp
 435 440 445
 Leu Lys Gln Thr Asp Lys Thr Ile Leu Asp Ser Glu Asp Asp Ala Glu
 450 455 460
 Leu Ala His Arg
 465

<210> 9405

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9405

Leu Gly Glu Ala Asp Asn Arg Arg Arg Lys Phe Cys Tyr His Pro Cys
 1 5 10 15
 Thr Ile His Leu Ala Leu Ala Ala Thr Met Lys Phe Val Ser Phe Asn
 20 25 30
 Ile Asn Gly Leu Arg Ala Arg Pro His Gln Leu Glu Ala Ile Val Glu
 35 40 45

Gln His Gln Pro Asp Val Ile Gly Leu Gln Glu Thr Lys Val His Asp
 50 55 60
 Asp Met Phe Pro Leu Glu Glu Val Ala Lys Leu Gly Tyr Asn Val Phe
 65 70 75 80
 Tyr His Gly Gln Lys Gly His Tyr Gly Val Ala Leu Leu Thr Lys Asp
 85 90 95
 Thr Pro Val Ser Val Arg Arg Gly Phe Pro Gly Asp Gly Glu Glu Ala
 100 105 110
 Gln Arg Arg Ile Ile Met Ala Glu Ile Pro Ser Ala Leu Gly Asn Val
 115 120 125
 Thr Val Ile Asn Gly Tyr Phe Pro Gln Gly Glu Ser Arg Asp His Glu
 130 135 140
 Thr Lys Phe Pro Ala Lys Ala Lys Phe Tyr Gln Asp Leu Gln Asn Tyr
 145 150 155 160
 Leu Thr Thr Glu Leu Lys Lys Glu Asn Pro Val Leu Ile Met Gly Asp
 165 170 175
 Met Asn Ile Ser Pro Thr Asp Leu Asp Ile Gly Ile Gly Glu Glu Asn
 180 185 190
 Arg Lys Arg Trp Leu Arg Thr Gly Lys Cys Ser Phe Leu Pro Glu Glu
 195 200 205
 Arg Glu Trp Met Glu Arg Leu Leu Gly Trp Gly Leu Val Asp Thr Phe
 210 215 220
 Arg Thr Ala Asn Pro Glu Thr Gln Asp Arg Phe Ser Trp Phe Asp Tyr
 225 230 235 240
 Arg Ser Lys Gly Phe Asp Asp Asn Arg Gly Leu Arg Ile Asp Leu Leu
 245 250 255
 Leu Ala Ser Ala Pro Leu Ala Glu Arg Cys Ile Glu Thr Gly Ile Asp
 260 265 270
 Tyr Asp Ile Arg Ser Met Glu Lys Pro Ser Asp His Ala Pro Val Trp
 275 280 285
 Ala Thr Phe Lys Leu
 290

<210> 9406

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9406

Thr Ser Val Asn Ile Lys Lys Ile Ser Leu Leu Cys Ala Leu Leu Gly
 1 5 10 15
 Ala Phe Val Leu Ile Val Val Leu Leu Pro Pro Gly Met Leu Ser Leu
 20 25 30
 Asp Thr Leu Lys Ile His Gln Gln Thr Leu Leu Ala Arg Val Glu Gln
 35 40 45
 Ala Pro Leu Gln Ser Ala Leu Phe Tyr Phe Ala Val Tyr Val Leu Leu
 50 55 60
 Ser Ala Leu Ser Ile Pro Gly Ala Ala Leu Leu Thr Leu Leu Gly Gly
 65 70 75 80
 Ala Leu Phe Ser Leu Trp Glu Ala Thr Leu Leu Val Ser Phe Ala Ser
 85 90 95
 Thr Leu Gly Ala Thr Leu Ala Met Leu Val Ser Arg Tyr Leu Leu Arg
 100 105 110
 Asp Trp Val Gln Arg Arg Phe Ala Ala Gln Met Asn Thr Ile Asp Ala
 115 120 125
 Gly Met Asp Arg Asp Gly Ala Arg Tyr Leu Phe Ala Leu Arg Leu Met
 130 135 140
 Pro Leu Phe Pro Phe Phe Leu Val Asn Leu Leu Met Gly Leu Thr Arg
 145 150 155 160
 Leu Arg Val Arg His Tyr Trp Trp Val Ser Gln Leu Ala Met Leu Pro
 165 170 175

Ala Thr Val Ile Tyr Leu Asn Ala Gly Arg Glu Leu Gly Lys Leu Thr
 180 185 190
 Ser Leu Arg Asp Ile Leu Ser Pro Gly Leu Leu Phe Ala Phe Thr Leu
 195 200 205
 Leu Gly Leu Leu Pro Leu Val Thr Arg Trp Leu Phe Ser Arg Tyr Ile
 210 215 220
 Pro Ser Ile Lys Lys
 225 230

<210> 9407

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 9407

Gly Ile Met Arg Arg Val Arg Phe Cys Ala Phe Leu Thr Ser Leu Leu
 1 5 10 15
 Leu Ala Thr Ser Ala Phe Ala Ala Glu Ser Trp Gln Ser Ile Gln Gln
 20 25 30
 Gln Ala Thr Gly Gln Thr Val Trp Phe Asn Ala Trp Gly Gly Asp Glu
 35 40 45
 Ala Val Asn Arg Tyr Leu Asp Trp Val Ser Gly Glu Met Lys Thr His
 50 55 60
 Tyr Ala Ile Asn Leu Lys Ile Val His Leu Ala Asp Ala Ala Asp Ala
 65 70 75 80
 Val Lys Arg Ile Gln Thr Glu His Ala Ala Gly Arg Ser Ser Asn Gly
 85 90 95
 Ser Val Asp Leu Leu Trp Val Asn Gly Glu Asn Phe Arg Asn Leu Lys
 100 105 110
 Ala Ala Asn Leu Leu Leu Thr Gly Trp Ala Gln Thr Leu Pro Asn Trp
 115 120 125
 Arg Tyr Val Asp Thr Arg Lys Pro Val Thr Glu Asp Phe Ala Ile Pro
 130 135 140
 Thr Asp Gly Ala Glu Ser Pro Trp Gly Gly Ala Gln Leu Thr Phe Ile
 145 150 155 160
 Ala Arg Lys Ala Ser Thr Pro Thr Pro Pro Ala Asp Pro His Ala Leu
 165 170 175
 Leu Val Tyr Ala Arg Gln His Pro Gly Lys Val Ser Tyr Pro Arg Pro
 180 185 190
 Pro Asp Phe Thr Gly Thr Ala Phe Leu Glu Gln Leu Leu Ala Leu
 195 200 205
 Thr Ala His Pro Glu Ala Leu Lys Asn Ala Pro Asp Ser Thr Phe Ala
 210 215 220
 Gln Val Thr Ala Pro Leu Trp Asp Tyr Leu Asp Thr Leu His Pro Leu
 225 230 235 240
 Leu Trp Arg Glu Gly Asn Asp Phe Pro Pro Ser Pro Ala Arg Met Asp
 245 250 255
 Thr Leu Leu Ala Ser Gly Ser Leu Asn Leu Ser Leu Thr Phe Asn Pro
 260 265 270
 Ala His Ala Met Gln Lys Val Ala Ser Gly Glu Leu Pro Ala Asp Ser
 275 280 285
 Tyr Ser Phe Gly Phe Leu Lys Gly Met Ile Gly Asn Val His Phe Val
 290 295 300
 Ala Ile Pro Ala Asn Ala Ser Ala Ser Ala Gly Ala Lys Val Val Ala
 305 310 315 320
 Asn Phe Leu Leu Ser Pro Gln Ala Gln Ile Arg Lys Ala Asn Pro Ala
 325 330 335
 Val Trp Gly Asp Pro Ser Val Leu Asp Gly Glu Lys Leu Pro Ala Lys
 340 345 350
 Ala Ala Lys Gln Leu Arg Ala Phe Thr Pro Ser Gly Thr Pro Asp Val
 355 360 365

Leu Pro Glu Pro His Ala Ala Trp Val Asn Ala Leu Glu Gln Glu Trp
 370 375 380
 Leu Arg Arg Tyr Gly Thr Arg
 385 390

<210> 9408

<211> 453

<212> PRT

<213> Enterobacter cloacae

<400> 9408

Glu Val Leu Ile Ser Met Asp Gln Thr Arg Ser Leu Glu Ser Phe Leu
 1 5 10 15
 Ala His Val Gln Arg Asp Pro His Gln Ser Glu Phe Ala Gln Ala
 20 25 30
 Val Arg Glu Val Met Thr Thr Leu Trp Pro Phe Leu Glu Glu Asn Pro
 35 40 45
 Arg Tyr Arg Gln Met Ala Leu Leu Glu Arg Leu Val Glu Pro Glu Arg
 50 55 60
 Val Ile Gln Phe Arg Val Ala Trp Val Asp Asp Arg Asn Gln Val Gln
 65 70 75 80
 Val Asn Arg Ala Trp Arg Val Gln Phe Asn Ser Ala Ile Gly Pro Phe
 85 90 95
 Lys Gly Gly Met Arg Phe His Pro Ser Val Asn Leu Ser Ile Leu Lys
 100 105 110
 Phe Leu Gly Phe Glu Gln Thr Phe Lys Asn Ala Leu Thr Thr Leu Pro
 115 120 125
 Met Gly Gly Gly Lys Gly Gly Ser Asp Phe Asp Pro Lys Gly Lys Ser
 130 135 140
 Glu Gly Glu Val Met Arg Phe Cys Gln Ala Leu Val Thr Glu Leu Tyr
 145 150 155 160
 Arg His Leu Gly Pro Asp Thr Asp Val Pro Ala Gly Asp Ile Gly Val
 165 170 175
 Gly Gly Arg Glu Val Gly Phe Met Ala Gly Met Met Lys Lys Leu Ser
 180 185 190
 Asn Asn Ser Ala Cys Val Phe Thr Gly Lys Gly Leu Ser Phe Gly Gly
 195 200 205
 Ser Leu Ile Arg Pro Glu Ala Thr Gly Tyr Gly Leu Val Tyr Phe Thr
 210 215 220
 Glu Ala Met Leu Lys Arg His Gly Leu Ser Phe Glu Gly Met Arg Val
 225 230 235 240
 Ala Val Ser Gly Ser Gly Asn Val Ala Gln Tyr Ala Ile Glu Lys Ala
 245 250 255
 Met Ala Phe Gly Ala Arg Val Val Thr Ala Ser Asp Ser Ser Gly Thr
 260 265 270
 Val Val Asp Glu Ala Gly Phe Thr Ala Glu Lys Leu Ala Arg Leu Cys
 275 280 285
 Glu Ile Lys Ala Ser Arg Asp Gly Arg Val Ala Asp Tyr Ala Arg Glu
 290 295 300
 Phe Gly Leu Thr Tyr Leu Glu Gly Lys Gln Pro Trp Gly Val Pro Val
 305 310 315 320
 Asp Ile Ala Leu Pro Cys Ala Thr Gln Asn Glu Leu Asp Val Asp Ala
 325 330 335
 Ala Arg Thr Leu Ile Ser Asn Gly Val Lys Ala Val Ala Glu Gly Ala
 340 345 350
 Asn Met Pro Thr Thr Ile Asp Ala Thr Asp Leu Phe Leu Asp Ala Gly
 355 360 365
 Val Leu Phe Ala Pro Gly Lys Ala Ala Asn Ala Gly Gly Val Ala Thr
 370 375 380
 Ser Gly Leu Glu Met Ala Gln Asn Ala Ala Arg Met Ser Trp Lys Ala
 385 390 395 400

Glu Lys Val Asp Ala Arg Leu His His Ile Met Leu Asp Ile His His
 405 410 415
 Ala Cys Val Glu Tyr Gly Gly Glu Ala Ser Gln Thr Asn Tyr Val Arg
 420 425 430
 Gly Ala Asn Ile Ala Gly Phe Val Lys Val Ala Asp Ala Met Ile Gly
 435 440 445
 Gln Gly Val Ile
 450

<210> 9409

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 9409

Ser Thr Glu Pro Leu Arg Val Leu Pro Asp Leu Arg Glu Arg Ala Leu
 1 5 10 15
 Lys Thr Val Pro Ser Ser Arg Glu Glu Gly Ile Phe Ser Phe Glu Glu
 20 25 30
 Gln Glu Leu Ile Thr Met Gln Lys Lys Ser Ile Tyr Val Ala Tyr Thr
 35 40 45
 Gly Gly Thr Ile Gly Met Gln Arg Ser Glu Asn Gly Tyr Ile Pro Val
 50 55 60
 Ser Gly His Leu Gln Arg Gln Leu Ala Leu Met Pro Glu Phe His Arg
 65 70 75 80
 Pro Glu Met Pro Asp Phe Thr Ile His Glu Tyr Glu Pro Leu Met Asp
 85 90 95
 Ser Ser Asp Met Thr Pro Glu Asp Trp Gln His Ile Ala Asp Asp Ile
 100 105 110
 Lys Ala His Tyr Asp Gln Tyr Asp Gly Phe Val Ile Leu His Gly Thr
 115 120 125
 Asp Thr Met Ala Phe Thr Ala Ser Ala Leu Ser Phe Met Leu Glu Asn
 130 135 140
 Leu Ser Lys Pro Val Ile Val Thr Gly Ser Gln Ile Pro Leu Ala Glu
 145 150 155 160
 Leu Arg Ser Asp Gly Gln Ile Asn Leu Leu Asn Ser Leu Tyr Val Ala
 165 170 175
 Ala Asn Tyr Pro Ile Asn Glu Val Thr Leu Phe Phe Asn Asn Arg Leu
 180 185 190
 Tyr Arg Gly Asn Arg Thr Thr Lys Ala His Ala Asp Gly Phe Asp Ala
 195 200 205
 Phe Ala Ser Pro Asn Leu Gln Pro Leu Leu Glu Ala Gly Ile His Ile
 210 215 220
 Arg Arg Leu Gly Thr Pro Pro Ala Pro Asn Thr Ala Gly Glu Leu Ile
 225 230 235 240
 Val His Pro Ile Thr Pro Gln Pro Ile Gly Val Val Thr Ile Tyr Pro
 245 250 255
 Gly Ile Ser Ala Asp Val Val Arg Asn Phe Leu Arg Gln Pro Val Lys
 260 265 270
 Ala Leu Ile Leu Arg Ser Tyr Gly Val Gly Asn Ala Pro Gln Asn Gly
 275 280 285
 Glu Phe Leu Lys Glu Leu Gln Glu Ala Ser Asp Arg Gly Ile Val Val
 290 295 300
 Val Asn Leu Thr Gln Cys Met Ser Gly Lys Val Asn Met Gly Gly Tyr
 305 310 315 320
 Ala Thr Gly Asn Ala Leu Ala His Ala Gly Val Ile Ser Gly Phe Asp
 325 330 335
 Met Thr Val Glu Ala Thr Leu Thr Lys Leu His Tyr Leu Leu Ser Gln
 340 345 350
 Asp Leu Asp Ile Asp Ser Ile Arg Arg Ala Met Met Gln Asn Leu Arg
 355 360 365

Gly Glu Leu Thr Pro Asp Glu
370 375

<210> 9410

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9410

Gly	Asp	Pro	Met	Lys	Gln	Arg	Ala	Leu	Leu	Leu	Val	Asp	Leu	Gln	Asn
1				5				10						15	
Asp	Phe	Cys	Ala	Gly	Gly	Ala	Leu	Ala	Val	Ala	Glu	Gly	Asp	Ser	Thr
			20				25						30		
Val	Asp	Val	Ala	Asn	Ser	Leu	Ile	Ala	Trp	Cys	Lys	Ala	Arg	Gly	Glu
			35				40					45			
Ala	Val	Val	Ala	Ser	Gln	Asp	Trp	His	Pro	Ala	Asn	His	Gly	Ser	Phe
			50			55					60				
Ala	Ser	Gln	His	Asn	Val	Glu	Pro	Phe	Ser	Gln	Gly	Glu	Leu	Asp	Gly
65				70						75					80
Leu	Ala	Gln	Thr	Phe	Trp	Pro	Asp	His	Cys	Val	Gln	Gln	Thr	Glu	Gly
				85				90						95	
Ala	Glu	Leu	His	Pro	Leu	Leu	Asn	Gln	Lys	Ala	Ile	Asp	Ala	Val	Phe
			100				105						110		
His	Lys	Gly	Glu	Asn	Pro	Thr	Ile	Asp	Ser	Tyr	Ser	Ala	Phe	Phe	Asp
		115					120					125			
Asn	Gly	His	Arg	Gln	Lys	Thr	Ala	Leu	Asp	Ala	Trp	Leu	Arg	His	His
		130				135					140				
Glu	Ile	Thr	Glu	Leu	Ile	Val	Leu	Gly	Leu	Ala	Thr	Asp	Tyr	Cys	Val
145				150						155					160
Lys	Phe	Thr	Val	Leu	Asp	Ala	Leu	Gln	Leu	Gly	Tyr	Thr	Val	Asn	Val
				165					170					175	
Ile	Thr	Asp	Gly	Cys	Arg	Gly	Val	Asn	Ile	Gln	Pro	Gln	Asp	Ser	Ala
			180				185						190		
Gln	Ala	Phe	Met	Asp	Met	Ala	Ala	Glu	Gly	Ala	Thr	Leu	Tyr	Thr	Leu
		195				200						205			
Ala	Asp	Trp	Met	Glu	Thr	Gln	Ala								
		210				215									

<210> 9411

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 9411

Thr	Pro	Ser	His	His	Lys	Arg	Asn	Gly	Asp	Ala	Ile	Leu	Ser	Arg	Leu
1				5				10						15	
Phe	Phe	Arg	His	Ala	Phe	Ser	Val	Ala	Trp	Leu	Phe	Leu	Phe	Ser	Gln
			20				25						30		
Arg	Gly	Asn	Tyr	Met	Lys	Arg	Leu	Pro	Leu	Leu	Ala	Ala	Leu	Pro	Leu
		35					40					45			
Leu	Cys	Ala	Ser	Leu	Ala	Ser	Ala	Ala	Pro	Leu	Met	Ser	Val	Gly	Tyr
		50				55					60				
Phe	Asn	Gly	Gly	Gly	Asp	Val	Thr	Ala	Gly	Pro	Gly	Gly	Asp	Ile	His
65				70					75						80
Lys	Leu	Asp	Val	Arg	Gln	Ile	Thr	His	Leu	Asn	Tyr	Ser	Phe	Gly	Leu
				85				90						95	
Val	Tyr	Asn	Asn	Glu	Lys	Asp	Glu	Thr	Asn	Ala	Ala	Leu	Lys	Asp	Pro
			100				105						110		
Ala	Lys	Leu	His	Gln	Ile	Trp	Leu	Ser	Pro	Lys	Val	Ala	Ser	Asp	Leu
		115					120					125			
Ala	Leu	Leu	Pro	Gln	Leu	Arg	Lys	Gln	Asn	Pro	Asn	Leu	Lys	Val	Leu

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      130              135              140
Leu Ser Val Gly Gly Trp Gly Ala Arg Gly Phe Ser Gly Ala Ala Ala
145              150              155              160
Thr Lys Glu Ser Arg Ala Val Phe Ile Arg Ser Ala Gln Glu Ile Val
      165              170              175
Ser Gln Tyr Gly Leu Asp Gly Ile Asp Leu Asp Trp Glu Phe Pro Val
      180              185              190
Asn Gly Ala Trp Gly Leu Val Glu Ser Thr Pro Ala Asp Arg Asp Asn
      195              200              205
Phe Thr Ala Leu Leu Lys Glu Met Arg Asp Ala Phe Gly Lys Lys Lys
      210              215              220
Leu Val Thr Ile Ala Val Gly Ala Asn Ala Glu Ser Pro Lys Ser Trp
225              230              235              240
Val Asp Val Lys Ala Ile Ala Pro Leu Leu Asp Tyr Ile Asn Leu Met
      245              250              255
Thr Tyr Asp Met Ala Tyr Gly Thr Gln Tyr Phe Asn Ala Asn Leu Tyr
      260              265              270
Asp Ser Ser Asp Trp Pro Thr Val Ala Ala Ala Asp Lys Tyr Ser Val
      275              280              285
Asp Phe Val Val Asn Asn Tyr Leu Ala Ala Gly Leu Lys Pro Gln Gln
      290              295              300
Met Asn Leu Gly Ile Gly Phe Tyr Gly Arg Val Pro Lys Arg Ala Val
305              310              315              320
Glu Pro Gly Ile Asp Trp Ser Lys Pro Asp Ala Gln Asn Asn Pro Val
      325              330              335
Thr Gln Pro Tyr Phe Gly Pro Gln Glu Leu Ser Leu Phe Lys Ser Leu
      340              345              350
Gly Tyr Asp Leu Thr Lys Asp Thr Tyr Val Lys Tyr Asn Asp Ile Val
      355              360              365
Arg Lys Leu Leu Asn Asp Pro Gln Lys Arg Phe Thr Glu His Trp Asp
      370              375              380
Glu Gln Ala Lys Val Pro Trp Leu Ser Val Lys Ser Ala Asp Gly Lys
385              390              395              400
Ala Leu Phe Ala Ile Ser Tyr Glu Asn Pro Arg Ser Val Ala Ile Lys
      405              410              415
Ala Asp Tyr Ile Lys Glu Lys Gly Leu Ala Gly Ala Met Phe Trp Glu
      420              425              430
Tyr Gly Ala Asp Asp Glu Asn Gln Leu Ala Lys Gln Leu Ala Glu Ser
      435              440              445
Leu Gly Ile Leu His Gln
      450              455

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<210> 9412

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 9412

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Lys Glu Val Met Met Ala Ser Ile Tyr Thr Leu Thr Leu Ser Pro Ser
1      5      10
Leu Asp Ser Ala Thr Met Thr Pro Gln Ile Tyr Pro Glu Gly Lys Leu
      20      25      30
Arg Cys Ser Ala Pro Val Phe Glu Pro Gly Gly Gly Gly Ile Asn Val
      35      40      45
Ala Arg Ala Ile Thr His Leu Gly Gly Lys Ala Thr Ala Ile Phe Pro
      50      55      60
Ala Gly Gly Ala Thr Gly Glu His Leu Val Ala Leu Leu Ala Asp Glu
65      70      75      80
Gln Val Ala Val Asp Thr Val Asp Ala Lys Asp Trp Thr Arg Gln Asn
      85      90      95
Leu His Val His Val Glu Ser Ser Gly Glu Gln Tyr Arg Phe Val Met

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			100					105				110			
Pro	Gly	Ala	Lys	Leu	Thr	Asp	Asp	Glu	Phe	Arg	Gln	Leu	Glu	Glu	Lys
		115					120					125			
Val	Leu	Thr	Ile	Glu	Ser	Gly	Ser	Leu	Leu	Val	Ile	Ser	Gly	Ser	Leu
	130					135					140				
Pro	Pro	Gly	Val	Lys	Thr	Glu	Lys	Leu	Thr	Ala	Leu	Val	Gln	Ala	Ala
145					150					155					160
Leu	Gln	Arg	Gly	Ile	Arg	Cys	Ile	Val	Asp	Ser	Ser	Gly	Glu	Ala	Leu
			165						170					175	
Lys	Ala	Ala	Leu	Glu	Pro	Gly	Gln	Leu	Glu	Leu	Val	Lys	Pro	Asn	Gln
			180					185					190		
Lys	Glu	Leu	Ser	Ala	Leu	Val	Asn	Arg	Glu	Leu	Ser	Gln	Pro	Asp	Asp
	195						200					205			
Val	Arg	Thr	Ala	Ala	Glu	Glu	Leu	Val	Arg	Thr	Gly	Lys	Ala	His	Arg
	210					215					220				
Val	Val	Val	Ser	Leu	Gly	Pro	Gln	Gly	Ala	Leu	Ala	Val	Asp	Lys	Thr
225					230				235						240
Gly	Phe	Val	Gln	Val	Val	Pro	Pro	Pro	Met	Lys	Ser	Gln	Ser	Thr	Val
				245					250					255	
Gly	Ala	Gly	Asp	Ser	Met	Val	Gly	Ala	Met	Val	Leu	Lys	Leu	Ala	Gln
			260					265					270		
Gly	Ala	Ser	Leu	Leu	Glu	Met	Ala	Arg	Tyr	Gly	Val	Ala	Ala	Gly	Ser
	275						280					285			
Ala	Ala	Thr	Ile	Asn	Gln	Gly	Thr	Arg	Leu	Cys	Ser	Leu	Ala	Asp	Thr
	290				295						300				
Gln	Lys	Ile	Val	Asp	Tyr	Leu	Glu	Arg	Ser						
305					310				315						

<210> 9413

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 9413

Gly	Asp	Val	Val	Met	Ser	Thr	Pro	Arg	Lys	Ile	Leu	Ala	Ala	Ile	Phe
1				5				10						15	
Asp	Met	Asp	Gly	Leu	Leu	Ile	Asp	Ser	Glu	Pro	Leu	Trp	Asp	Arg	Ala
		20					25						30		
Glu	Leu	Asp	Val	Met	Ala	Ser	Leu	Gly	Val	Asp	Ile	Ser	Arg	Arg	Asn
	35						40					45			
Glu	Leu	Pro	Asp	Thr	Leu	Gly	Leu	Arg	Ile	Asp	Met	Val	Val	Asp	Leu
	50					55				60					
Trp	Tyr	Ala	His	Gln	Pro	Trp	Val	Gly	Pro	Asp	Arg	Asp	Glu	Val	Thr
65				70				75							80
Ala	Arg	Ile	Ile	Asn	Arg	Ala	Ile	Ser	Leu	Val	Glu	Glu	Tyr	Lys	Pro
				85				90						95	
Leu	Leu	Pro	Gly	Val	Arg	Asp	Ala	Ile	Ala	Leu	Cys	Lys	Ala	Gln	Gly
		100					105						110		
Leu	Lys	Val	Gly	Leu	Ala	Ser	Ala	Ser	Pro	Leu	His	Met	Leu	Glu	Lys
	115						120					125			
Val	Leu	Thr	Met	Phe	Gly	Leu	Arg	Asp	Ser	Phe	Asp	Ala	Leu	Ala	Ser
	130					135					140				
Ala	Glu	Lys	Leu	Pro	Tyr	Ser	Lys	Pro	His	Pro	Gln	Val	Tyr	Met	Asp
145					150				155						160
Cys	Ala	Ala	Lys	Leu	Gly	Leu	Asp	Pro	Leu	Thr	Cys	Val	Ala	Leu	Glu
			165					170						175	
Asp	Ser	Val	Asn	Gly	Met	Val	Ala	Ser	Lys	Ala	Ala	Arg	Met	Arg	Ser
		180						185					190		
Ile	Val	Val	Pro	Ala	Glu	Glu	Gly	Arg	His	Asp	Pro	Arg	Phe	Ala	Leu
	195						200					205			
Ala	Asp	Val	Arg	Leu	Thr	Ser	Leu	Glu	Glu	Leu	Thr	Ala	Arg	His	Leu

210
Arg Gly Glu
225

215

220

<210> 9414
<211> 312
<212> PRT
<213> Enterobacter cloacae

<400> 9414
Ile Ala Val Lys Gln Tyr Thr Gln Asn Cys Asp Pro Cys Arg Phe Pro
1 5 10 15
Asp Lys Gly Leu Val Leu Thr Asp His Thr Phe Cys Leu Val Leu His
20 25 30
Arg Glu Gly Val Met Ala Leu Gln Gln Glu Ile Ile Gln Ala Leu Gly
35 40 45
Ala Lys Pro Ala Ile Asp Ala Asn Glu Glu Ile Arg Arg Ser Val Asp
50 55 60
Phe Leu Lys Ala Tyr Leu Ser Ala His Pro Phe Leu Lys Thr Leu Val
65 70 75 80
Leu Gly Ile Ser Gly Gly Gln Asp Ser Thr Leu Ala Gly Lys Leu Ser
85 90 95
Gln Met Ala Ile Ser Glu Leu Arg Asp Glu Thr Gly Asp Thr Ala Leu
100 105 110
Gln Phe Ile Ala Val Arg Leu Pro Tyr Gly Val Gln Ala Asp Glu Gln
115 120 125
Asp Cys Gln Asp Ala Ile Ala Phe Ile Gln Pro Asp Arg Val Leu Thr
130 135 140
Val Asn Ile Lys Gly Ser Val Leu Ala Ser Glu Gln Ala Leu Arg Glu
145 150 155 160
Ala Gly Ile Glu Leu Ser Asp Phe Val Arg Gly Asn Glu Lys Ala Arg
165 170 175
Glu Arg Met Lys Ala Gln Tyr Ser Ile Ala Gly Met Thr Lys Gly Val
180 185 190
Val Val Gly Thr Asp His Ala Ala Glu Ala Ile Thr Gly Phe Phe Thr
195 200 205
Lys Tyr Gly Asp Gly Gly Thr Asp Ile Asn Pro Leu Phe Arg Leu Asn
210 215 220
Lys Arg Gln Gly Lys Gln Leu Leu Ala Ala Leu Gly Cys Pro Glu His
225 230 235 240
Leu Tyr Lys Lys Ala Pro Thr Ala Asp Leu Glu Asp Asp Arg Pro Ser
245 250 255
Leu Pro Asp Glu Ala Ala Leu Gly Val Thr Tyr Asp Asn Ile Asp Asp
260 265 270
Tyr Leu Glu Gly Lys Thr Leu Asp Glu Gly Thr Ala Asn Ile Ile Glu
275 280 285
Gly Trp Tyr Leu Lys Thr Glu His Lys Arg Arg Pro Pro Ile Thr Val
290 295 300
Phe Asp Asp Phe Trp Lys Lys
305 310

<210> 9415
<211> 381
<212> PRT
<213> Enterobacter cloacae

<400> 9415
Val Gly Thr Pro Ala Arg Arg Gly Val Asp Leu Ala Ala Ala Cys Pro
1 5 10 15
Pro Gly Ala Ala Pro Arg Val Arg Ala Val Cys Arg Gly Ala Val Ala
20 25 30

Gly His Arg Arg Pro Val Arg Cys Gly Ala Leu Glu Pro Tyr Ala Leu
 35 40 45
 Gly Pro Pro Val Asp Ala Pro Gly Ala Ala Thr Gly Leu Ala Pro Ala
 50 55 60
 Arg Ser Pro Ala Tyr Pro His Cys Gln Asn Ala Gly Leu Ala Ala Gly
 65 70 75 80
 Glu Asn Phe Leu Ala Ser Glu Met Pro Ile Asp Gly Ser Ser Gly Pro
 85 90 95
 Ala Gly Leu Cys His Arg Leu Phe Arg Glu His Gly Pro Val His Ala
 100 105 110
 Tyr Pro Leu Ala Gly Gly Gly Thr Phe His His Pro Asp Asp Gly Gly
 115 120 125
 Gly Arg Pro Gln Gln Arg Arg Gln His Ser Asp Pro Arg Gln Pro Gly
 130 135 140
 Ala Gly Ser Val Val Val Asp Gln Gln Arg Ile Cys Pro Cys Arg Ala
 145 150 155 160
 Ala Leu Pro Ala Arg Gly Pro Ser Gln Thr Arg Ile Thr Leu Met Leu
 165 170 175
 Thr Val Lys Asn Leu Thr Ile Ala Pro Leu Leu His Glu Val Asn Phe
 180 185 190
 Arg Val Pro Ala Gly Glu Ile Val Thr Leu Met Gly Pro Ser Gly Ser
 195 200 205
 Gly Lys Ser Thr Leu Phe Ala Trp Met Val Gly Ala Leu Ser Ala Asp
 210 215 220
 Phe Lys Ala His Gly Glu Leu Trp Leu Asn Asp Arg Arg Cys Asp Met
 225 230 235 240
 Leu Pro Val Glu Thr Arg Gly Ile Gly Ile Leu Phe Gln Asp Ala Leu
 245 250 255
 Leu Phe Asp Ala Phe Ser Val Gly Gln Asn Leu Met Leu Ala Leu Pro
 260 265 270
 Ala His Ile Val Gly Arg Ala Arg Arg Asn Ala Val Glu Gln Ala Leu
 275 280 285
 Glu Thr Ala Gly Leu Ala Asn His Tyr Thr Ser Asp Pro Ala Thr Leu
 290 295 300
 Ser Gly Gly Glu Arg Ala Arg Val Ser Leu Leu Arg Ala Leu Leu Ala
 305 310 315 320
 Gln Pro Gln Ala Leu Leu Leu Asp Glu Pro Phe Ser Arg Leu Asp Lys
 325 330 335
 Thr Leu Arg Ala Ser Phe Arg Ala Trp Val Phe Glu Val Thr Arg Gln
 340 345 350
 Arg Arg Ile Pro Val Val Leu Val Thr His Asp Glu Asp Ile Pro
 355 360 365
 Pro Gly Gly Glu Val Ile Glu Ile Ser Arg Trp Gln
 370 375 380

<210> 9416

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 9416

Arg Pro Ala Leu Tyr Pro Ala Pro Arg Ser Ala Arg Pro Asp Ala Gly
 1 5 10 15
 Cys Trp His Gln Tyr Lys Met Arg Ser Gly Arg Ser Ala Arg Pro Ala
 20 25 30
 Ser Leu Val Ala Ile Ala Glu Pro Gly Ser Asn Ala Pro Cys Ala Ala
 35 40 45
 Pro Asp Ser Arg Gln Thr Ala Pro Pro Ala Arg Lys Asp Ala Ala Tyr
 50 55 60
 Ala Pro Thr Ser Glu Trp Gly Ser Ala Pro Arg Arg Ser Val Phe Ser
 65 70 75 80

Ala Trp Arg Arg Trp Gly
85

<210> 9417

<211> 622

<212> PRT

<213> Enterobacter cloacae

<400> 9417

Gly	Glu	Tyr	Met	Arg	Thr	Leu	Trp	Arg	Ile	Ile	Ala	Gly	Phe	Phe	Lys
1				5					10					15	
Trp	Thr	Trp	Arg	Leu	Leu	Asn	Phe	Val	Arg	Asn	Leu	Val	Met	Asn	Ile
			20					25					30		
Phe	Phe	Ile	Leu	Leu	Val	Leu	Val	Cys	Ala	Gly	Ile	Trp	Met	His	Ile
		35					40					45			
Ser	Asn	Ala	Asn	Gln	Ser	Gln	His	Ser	Thr	Arg	Gly	Ala	Leu	Leu	Leu
	50					55					60				
Asp	Ile	Thr	Gly	Val	Ile	Val	Asp	Lys	Pro	Ser	Thr	Ser	Asn	Arg	Leu
65				70					75					80	
Gly	Val	Ile	Gly	Arg	Gln	Leu	Phe	Gly	Ala	Thr	Ser	Asp	Arg	Leu	Gln
			85					90					95		
Glu	Asn	Ser	Leu	Phe	Asp	Ile	Val	Asp	Thr	Ile	Arg	Gln	Ala	Lys	Asp
			100					105					110		
Asp	Arg	Asn	Ile	Thr	Gly	Ile	Val	Leu	Asp	Leu	Lys	Asp	Phe	Ala	Gly
		115				120						125			
Ala	Asp	Gln	Pro	Ser	Met	Gln	Tyr	Ile	Gly	Lys	Ala	Leu	Arg	Glu	Phe
	130					135					140				
Arg	Asp	Ser	Gly	Lys	Pro	Val	Ile	Ala	Ile	Gly	Asp	Ser	Tyr	Thr	Gln
145				150					155						160
Gly	Gln	Tyr	Tyr	Leu	Ala	Ser	Phe	Ala	Asn	Lys	Ile	Trp	Leu	Ser	Pro
			165						170					175	
Gln	Gly	Thr	Val	Asp	Leu	His	Gly	Phe	Ala	Thr	Asn	Gly	Leu	Tyr	Tyr
			180					185					190		
Lys	Ser	Leu	Leu	Asp	Lys	Leu	Lys	Val	Thr	Thr	His	Val	Phe	Arg	Val
		195					200					205			
Gly	Thr	Tyr	Lys	Ser	Ala	Val	Glu	Pro	Phe	Ile	Arg	Asp	Asp	Met	Ser
	210					215					220				
Pro	Ala	Ala	Arg	Glu	Ala	Asp	Ser	Arg	Trp	Ile	Gly	Glu	Leu	Trp	Gln
225				230					235					240	
Asn	Tyr	Leu	Gly	Thr	Ile	Ala	Ala	Asn	Arg	Gln	Ile	Thr	Ala	Glu	Gln
			245					250						255	
Val	Phe	Pro	Gly	Ala	Arg	Gly	Val	Leu	Asp	Gly	Leu	Arg	Lys	Val	Asp
			260				265						270		
Gly	Asp	Thr	Ala	Lys	Tyr	Ala	Leu	Asp	Asn	Lys	Leu	Val	Asp	Gln	Leu
		275					280					285			
Gly	Ser	Ser	Ala	Glu	Ile	Glu	Lys	Ala	Leu	Thr	Lys	Gln	Phe	Gly	Trp
	290					295					300				
Ser	Lys	Glu	Asp	Lys	Asn	Tyr	Ser	Ala	Ile	Ser	Met	Tyr	Asp	Tyr	Ala
305					310				315						320
Ala	Lys	Lys	Ser	Asp	Asp	Ser	Gly	Asp	Ser	Ile	Ala	Val	Val	Phe	Ala
			325					330						335	
Asn	Gly	Ala	Ile	Met	Asp	Gly	Glu	Glu	Thr	Pro	Gly	Asn	Val	Gly	Gly
			340				345						350		
Asp	Thr	Thr	Ala	Ser	Gln	Ile	Arg	Asp	Ala	Arg	Leu	Asp	Pro	Lys	Val
		355					360					365			
Lys	Ala	Ile	Val	Leu	Arg	Val	Asn	Ser	Pro	Gly	Gly	Ser	Val	Ser	Ala
	370					375					380				
Ser	Glu	Val	Ile	Arg	Ala	Glu	Leu	Ala	Ala	Ala	Arg	Ala	Ala	Gly	Lys
385				390					395						400
Pro	Val	Val	Val	Ser	Met	Gly	Gly	Met	Ala	Ala	Ser	Gly	Gly	Tyr	Trp
				405				410						415	

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Ile Ser Thr Pro Ala Asn Tyr Ile Val Ala Asn Pro Ser Thr Leu Thr
      420      425      430
Gly Ser Ile Gly Ile Phe Gly Val Ile Asn Thr Val Glu Asn Ser Leu
      435      440      445
Asp Tyr Leu Gly Val His Thr Asp Gly Val Ser Thr Ser Pro Leu Ala
      450      455      460
Asp Val Ser Val Thr Lys Ser Leu Pro Pro Glu Val Ser Glu Met Met
      465      470      475      480
Gln Leu Ser Ile Glu Ser Gly Tyr Lys Arg Phe Ile Thr Leu Val Ala
      485      490      495
Asp Ser Arg Lys Lys Thr Pro Asp Gln Ile Asp Gln Ile Ala Gln Gly
      500      505      510
His Val Trp Thr Gly Gln Asp Ala Lys Ser Asn Gly Leu Val Asp Ser
      515      520      525
Leu Gly Asp Phe Asp Asp Ala Val Lys Lys Ala Ala Glu Leu Ala Lys
      530      535      540
Leu Lys Gln Trp His Val Asp Tyr Tyr Gln Asp Glu Pro Thr Phe Phe
      545      550      555      560
Asp Met Val Met Asp Ser Met Ser Gly Ser Val Arg Ala Met Leu Pro
      565      570      575
Asp Ala Leu Gln Ala Tyr Leu Pro Ala Pro Val Ala Thr Ala Ala Lys
      580      585      590
Ala Met Lys Ala Glu Ser Asp Lys Leu Ala Ala Phe Asn Asp Pro Gln
      595      600      605
Ser Arg Tyr Ala Phe Cys Leu Thr Cys Ala Asn Val Arg
      610      615      620

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<210> 9418

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9418

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Pro Met Ser Gln Gln Val Val Ile Phe Asp Thr Thr Leu Arg Asp Gly
1      5      10      15
Glu Gln Ala Leu Gln Ala Ser Leu Ser Val Lys Glu Lys Leu Gln Ile
      20      25      30
Ala Leu Ala Leu Glu Arg Met Gly Val Asp Val Met Glu Val Gly Phe
      35      40      45
Pro Val Ser Ser Pro Gly Asp Phe Glu Ser Val Gln Thr Ile Ala Arg
      50      55      60
Thr Ile Lys Asn Ser Arg Val Cys Gly Leu Ala Arg Cys Val Glu Lys
      65      70      75      80
Asp Ile Asp Val Ala Ala Glu Ser Leu Lys Val Ala Glu Ala Phe Arg
      85      90      95
Ile His Thr Phe Ile Ala Thr Ser Pro Met His Ile Ala Thr Lys Leu
      100      105      110
Arg Ser Thr Leu Asp Glu Val Ile Glu Arg Ala Val Tyr Met Val Lys
      115      120      125
Arg Ala Arg Asn Tyr Thr Asp Asp Val Glu Phe Ser Cys Glu Asp Ala
      130      135      140
Gly Arg Thr Pro Ile Asp Asp Leu Ala Arg Val Val Glu Ala Ala Ile
      145      150      155      160
Asn Ala Gly Ala Arg Thr Ile Asn Ile Pro Asp Thr Val Gly Tyr Thr
      165      170      175
Met Pro Phe Glu Phe Ser Asn Ile Ile Thr Gly Leu Tyr Asp Arg Val
      180      185      190
Pro Asn Ile Asp Lys Ala Ile Ile Ser Val His Thr His Asp Asp Leu
      195      200      205
Gly Leu Ala Val Gly Asn Ala Ile Ala Ala Val His Ala Gly Ala Arg
      210      215      220

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Gln Val Glu Gly Ala Met Asn Gly Ile Gly Glu Arg Ala Gly Asn Cys
 225 230 235 240
 Ser Leu Glu Glu Val Ile Met Ala Ile Lys Val Arg Lys Asp Ile Met
 245 250 255
 Asn Val His Thr Arg Ile Asn His Asn Glu Ile Trp Arg Thr Ser Gln
 260 265 270
 Thr Val Ser Gln Ile Cys Asn Met Pro Ile Pro Ala Asn Lys Ala Ile
 275 280 285
 Val Gly Ala Gly Ala Phe Ala His Ser Ser Gly Ile His Gln Asp Gly
 290 295 300
 Val Leu Lys Asn Arg Glu Asn Tyr Glu Ile Met Thr Pro Glu Ser Ile
 305 310 315 320
 Gly Leu Asn Gln Val Gln Leu Asn Leu Thr Ser Arg Ser Gly Arg Ala
 325 330 335
 Ala Val Lys His Arg Met Glu Glu Met Gly Tyr Lys Asp Ser Asp Tyr
 340 345 350
 Asn Met Asp Gln Leu Tyr Asp Ala Phe Leu Lys Leu Ala Asp Lys Lys
 355 360 365
 Gly Gln Val Phe Asp Tyr Asp Leu Glu Ala Leu Ala Phe Ile Asn Lys
 370 375 380
 Gln Gln Glu Glu Pro Glu His Phe Arg Leu Asp Tyr Phe Thr Val Gln
 385 390 395 400
 Ser Gly Ser Ser Asp Ile Ala Thr Ala Ser Val Lys Leu Ala Cys Gly
 405 410 415
 Asp Glu Ile Lys Ala Glu Ala Ala Asn Gly Asn Gly Pro Val Asp Ala
 420 425 430
 Ile Tyr Gln Ala Ile Asn Arg Val Thr Glu Tyr Asp Val Glu Leu Val
 435 440 445
 Lys Tyr Asp Leu Thr Ala Lys Gly His Gly Lys Asp Ala Leu Gly Gln
 450 455 460
 Val Asp Ile Val Val Asn Tyr Asn Gly Arg Arg Phe His Gly Val Gly
 465 470 475 480
 Leu Ala Thr Asp Ile Val Glu Ser Ser Ala Lys Ala Met Val His Val
 485 490 495
 Leu Asn Asn Ile Trp Arg Ala Ala Glu Val Glu Lys Glu Leu Gln Arg
 500 505 510
 Lys Ala Gln Asn Lys Glu Asn Asn Lys Glu Thr Val
 515 520 525

<210> 9419

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 9419

His Ile Lys Asp Thr Ile Met Thr Ile Phe Asn Asn Tyr Glu Val Trp
 1 5 10 15
 Phe Val Ile Gly Ser Gln His Leu Tyr Gly Pro Glu Ala Leu Gln Gln
 20 25 30
 Val Thr Lys His Ala Glu His Val Val Asn Ala Leu Asn Ala Glu Ala
 35 40 45
 Lys Leu Pro Cys Lys Leu Val Leu Lys Pro Leu Gly Thr Thr Pro Asp
 50 55 60
 Glu Ile Thr Asn Ile Cys Arg Asp Ala Asn Tyr Asp Asp Lys Cys Ala
 65 70 75 80
 Gly Leu Val Val Trp Leu His Thr Phe Ser Pro Ala Lys Met Trp Ile
 85 90 95
 Asn Gly Leu Ala Ile Leu Asn Lys Pro Leu Leu Gln Phe His Thr Gln
 100 105 110
 Phe Asn Ala Ser Leu Pro Trp Asp Ser Ile Asp Met Asp Phe Met Asn
 115 120 125

Leu Asn Gln Thr Ala His Gly Gly Arg Glu Phe Gly Phe Ile Gly Ala
 130 135 140
 Arg Met Arg Gln Gln His Ala Val Val Thr Gly His Trp Gln Asp Gly
 145 150 155 160
 Gln Ala Gln Lys Arg Ile Gly Ser Trp Met Arg Gln Ala Val Ser Lys
 165 170 175
 Gln Asp Thr Arg His Leu Lys Val Val Arg Phe Gly Asp Asn Met Arg
 180 185 190
 Glu Val Ala Val Thr Asp Gly Asp Lys Val Ala Ala Gln Ile Lys Phe
 195 200 205
 Gly Phe Ser Val Asn Thr Trp Ala Val Gly Asp Leu Val Gln Val Val
 210 215 220
 Asn Asp Ile Ser Asp Gly Asp Val Asn Ala Leu Val Asp Glu Tyr Glu
 225 230 235 240
 Ser Ser Tyr Arg Leu Thr Pro Ala Ala Gln Ile Asn Gly Asp Lys Arg
 245 250 255
 Gln Asn Val Leu Asp Ala Ala Arg Ile Glu Leu Gly Met Lys Arg Phe
 260 265 270
 Leu Glu Gln Gly Gly Phe His Ala Phe Thr Thr Thr Phe Glu Asp Leu
 275 280 285
 His Gly Leu Lys Gln Leu Pro Gly Leu Ala Val Gln Arg Leu Met Gln
 290 295 300
 Gln Gly Tyr Gly Phe Ala Gly Glu Gly Asp Trp Lys Thr Ala Ala Leu
 305 310 315 320
 Leu Arg Ile Met Lys Val Met Ser Thr Gly Leu Gln Gly Gly Thr Ser
 325 330 335
 Phe Met Glu Asp Tyr Thr Tyr His Phe Glu Asn Gly Asn Asp Leu Val
 340 345 350
 Leu Gly Ser His Met Leu Glu Val Cys Pro Ser Ile Ala Val Glu Glu
 355 360 365
 Lys Pro Ile Leu Asp Val Gln Tyr Leu Gly Ile Gly Gly Lys Ala Asp
 370 375 380
 Pro Ala Arg Leu Ile Phe Asn Thr Arg Thr Gly Pro Ala Ile Asn Ala
 385 390 395 400
 Ser Leu Ile Asp Leu Gly Asp Arg Phe Arg Leu Leu Val Asn Cys Val
 405 410 415
 Asp Ala Val Glu Thr Pro His Ser Leu Pro Lys Leu Pro Val Ala Asn
 420 425 430
 Ala Leu Trp Lys Ala Gln Pro Asp Leu Pro Thr Ala Ser Glu Ala Trp
 435 440 445
 Ile Leu Ala Gly Gly Ala His His Thr Val Phe Ser His Ala Leu Asp
 450 455 460
 Leu Asn Asp Met Arg Gln Phe Ala Glu Leu His Asp Ile Glu Leu Thr
 465 470 475 480
 Val Ile Asp Asn Asp Thr Arg Leu Pro Ala Phe Lys Asp Ala Leu Arg
 485 490 495
 Trp Asn Glu Val Tyr Tyr Gly Ser Lys Arg
 500 505

<210> 9420

<211> 973

<212> PRT

<213> Enterobacter cloacae

<400> 9420

Ser Arg Thr Thr Met Pro Phe Thr Leu Gly Gln Arg Trp Ile Ser Asp
 1 5 10 15
 Thr Glu Ser Glu Leu Gly Leu Gly Thr Val Val Ala Val Asp Ala Arg
 20 25 30
 Met Val Thr Phe Leu Phe Pro Ala Thr Gly Glu Asn Arg Leu Tyr Ala
 35 40 45

Arg	Asn	Asp	Ser	Pro	Val	Thr	Arg	Val	Met	Phe	Asn	Pro	Gly	Asp	Thr
50						55					60				
Val	Thr	Ser	His	Glu	Gly	Trp	Gln	Leu	Lys	Val	Glu	Asp	Val	Lys	Glu
65					70					75					80
Glu	Asn	Gly	Leu	Leu	Ala	Tyr	Ile	Gly	Thr	Arg	Leu	Asp	Thr	Asp	Glu
				85					90					95	
Thr	Asn	Val	Ile	Leu	Arg	Glu	Val	Leu	Leu	Asp	Ser	Lys	Leu	Val	Phe
			100					105					110		
Ser	Lys	Pro	Gln	Asp	Arg	Leu	Phe	Ala	Gly	Gln	Ile	Asp	Arg	Met	Asp
		115					120					125			
Arg	Phe	Ser	Leu	Arg	Tyr	Arg	Ala	Arg	Lys	Phe	Gln	Ser	Glu	Gln	Tyr
	130					135					140				
Arg	Met	Pro	Trp	Ser	Gly	Leu	Arg	Gly	Gln	Arg	Thr	Ser	Leu	Ile	Pro
145					150					155					160
His	Gln	Leu	Asn	Ile	Ala	His	Asp	Val	Gly	Arg	Arg	His	Ala	Pro	Arg
			165						170					175	
Val	Leu	Leu	Ala	Asp	Glu	Val	Gly	Leu	Gly	Lys	Thr	Ile	Glu	Ala	Gly
			180					185					190		
Met	Ile	Leu	His	Gln	Gln	Leu	Leu	Ser	Gly	Ala	Ala	Glu	Arg	Val	Leu
	195						200					205			
Ile	Val	Val	Pro	Glu	Thr	Leu	Gln	His	Gln	Trp	Leu	Val	Glu	Met	Leu
	210					215					220				
Arg	Arg	Phe	Asn	Leu	Arg	Phe	Ser	Leu	Phe	Asp	Asp	Glu	Arg	Tyr	Ala
225					230					235					240
Glu	Ala	Gln	His	Asp	Ala	Asp	Asn	Pro	Phe	Glu	Thr	Glu	Gln	Leu	Val
			245						250					255	
Ile	Cys	Ser	Leu	Asp	Phe	Val	Arg	Arg	Ser	Lys	Gln	Arg	Leu	Glu	His
			260					265					270		
Leu	Cys	Asp	Ala	Glu	Trp	Asp	Leu	Met	Val	Val	Asp	Glu	Ala	His	His
	275						280					285			
Leu	Val	Trp	Ser	Glu	Asp	Ala	Pro	Ser	Arg	Glu	Tyr	Met	Ala	Ile	Glu
	290					295					300				
Gln	Leu	Ala	Glu	Arg	Val	Pro	Gly	Val	Leu	Leu	Leu	Thr	Ala	Thr	Pro
305					310					315					320
Glu	Gln	Leu	Gly	Leu	Glu	Ser	His	Phe	Ala	Arg	Leu	Arg	Leu	Leu	Asp
			325					330						335	
Pro	Asn	Arg	Phe	His	Asp	Phe	Glu	Gln	Phe	Val	Glu	Glu	Gln	Lys	Asn
			340					345					350		
Tyr	Arg	Pro	Val	Ala	Asp	Ala	Val	Ala	Leu	Leu	Leu	Ala	Gly	Asn	Arg
		355					360					365			
Leu	Ser	Asn	Asp	Glu	Leu	Asn	Thr	Leu	Ser	Asp	Leu	Ile	Gly	Glu	Gln
	370					375					380				
Asp	Ile	Glu	Pro	Leu	Leu	Gln	Ala	Ala	Asn	Ser	Asp	Ser	Asp	Asn	Ala
385					390					395					400
Gly	Ser	Ala	Arg	Lys	Glu	Leu	Ile	Asp	Met	Leu	Met	Asp	Arg	His	Gly
			405						410					415	
Thr	Ser	Arg	Val	Leu	Phe	Arg	Asn	Thr	Arg	Asn	Gly	Val	Lys	Gly	Phe
			420					425					430		
Pro	Lys	Arg	Glu	Leu	His	Thr	Ile	Lys	Leu	Pro	Leu	Pro	Thr	Gln	Tyr
		435					440					445			
Gln	Thr	Ala	Ile	Lys	Val	Ser	Gly	Ile	Met	Gly	Thr	Arg	Lys	Ser	Ala
	450					455					460				
Glu	Asp	Arg	Ala	Arg	Asp	Met	Leu	Tyr	Pro	Glu	Gln	Ile	Tyr	Gln	Glu
465					470					475					480
Phe	Glu	Gly	Asp	Thr	Gly	Thr	Trp	Trp	Asn	Phe	Asp	Pro	Arg	Val	Glu
			485						490					495	
Trp	Leu	Met	Gly	Tyr	Leu	Thr	Ala	His	Arg	Ser	Arg	Lys	Val	Leu	Val
		500						505					510		
Ile	Cys	Ala	Lys	Ala	Ala	Thr	Ala	Leu	Gln	Leu	Glu	Gln	Val	Leu	Arg
		515					520					525			
Glu	Arg	Glu	Gly	Ile	Arg	Ala	Ala	Val	Phe	His	Glu	Gly	Met	Ser	Ile

530					535					540					
Ile	Glu	Arg	Asp	Arg	Ala	Ala	Ala	Trp	Phe	Ser	Glu	Glu	Asp	Ser	Gly
545					550					555					560
Ala	Gln	Val	Leu	Leu	Cys	Ser	Glu	Ile	Gly	Ser	Glu	Gly	Arg	Asn	Phe
				565					570					575	
Gln	Phe	Ala	Ser	Asn	Leu	Val	Met	Phe	Asp	Leu	Pro	Phe	Asn	Pro	Asp
			580					585					590		
Leu	Leu	Glu	Gln	Arg	Ile	Gly	Arg	Leu	Asp	Arg	Ile	Gly	Gln	Ala	His
		595					600					605			
Asp	Ile	Gln	Ile	His	Val	Pro	Tyr	Leu	Glu	Lys	Thr	Ala	Gln	Ser	Val
	610					615					620				
Leu	Val	Arg	Trp	Tyr	His	Glu	Gly	Leu	Asp	Ala	Phe	Glu	His	Thr	Cys
625					630					635					640
Pro	Thr	Gly	Arg	Thr	Ile	Tyr	Asp	Gln	Val	His	Ala	Asp	Leu	Ile	Gly
				645					650					655	
Tyr	Leu	Ala	Ala	Pro	Glu	Asn	Thr	Glu	Gly	Phe	Asp	Glu	Leu	Ile	Lys
			660					665					670		
Ser	Cys	Arg	Glu	Lys	His	Asp	Ala	Leu	Lys	Ala	Gln	Leu	Glu	Gln	Gly
		675					680					685			
Arg	Asp	Arg	Leu	Leu	Glu	Ile	His	Ser	Asn	Gly	Gly	Glu	Lys	Ala	Gln
	690					695					700				
Gln	Leu	Ala	Glu	Ser	Ile	Glu	Glu	Gln	Asp	Asp	Asp	Thr	Ser	Leu	Ile
705					710					715					720
Ser	Phe	Ser	Met	Asn	Leu	Phe	Asp	Ile	Val	Gly	Ile	Asn	Gln	Asp	Asp
			725						730					735	
Arg	Gly	Glu	Asn	Met	Ile	Val	Leu	Thr	Pro	Ser	Asp	His	Met	Leu	Val
			740					745					750		
Pro	Asp	Phe	Pro	Gly	Leu	Pro	Glu	Asp	Gly	Cys	Thr	Ile	Thr	Phe	Glu
		755					760					765			
Arg	Asp	Val	Ala	Leu	Ser	Arg	Glu	Asp	Ala	Gln	Phe	Ile	Thr	Trp	Glu
	770					775					780				
His	Pro	Leu	Ile	Arg	Asn	Gly	Leu	Asp	Leu	Ile	Leu	Ser	Gly	Asp	Thr
785					790					795					800
Gly	Ser	Ser	Thr	Ile	Ser	Leu	Leu	Lys	Asn	Lys	Ala	Leu	Pro	Val	Gly
				805					810					815	
Thr	Leu	Leu	Val	Glu	Leu	Ile	Tyr	Val	Val	Glu	Ala	Gln	Ala	Pro	Lys
			820					825					830		
Gln	Leu	Gln	Leu	Asn	Arg	Phe	Leu	Pro	Pro	Thr	Pro	Val	Arg	Leu	Leu
		835					840					845			
Leu	Asp	Lys	Asn	Gly	Thr	Asn	Leu	Ala	Gly	Gln	Val	Glu	Phe	Glu	Ser
	850					855					860				
Phe	Asn	Arg	Gln	Leu	Ser	Ala	Val	Asn	Arg	His	Thr	Gly	Ser	Lys	Leu
865					870					875					880
Val	Asn	Ala	Val	Gln	Gln	Asp	Val	His	Ala	Ile	Leu	Gln	Leu	Gly	Glu
			885						890					895	
Ala	Gln	Ala	Glu	Lys	Ala	Ala	Arg	Glu	Leu	Ile	Asp	Ala	Ala	Arg	Ser
			900					905				910			
Glu	Ala	Asp	Glu	Lys	Leu	Ser	Ala	Glu	Leu	Ser	Arg	Leu	Glu	Ala	Leu
		915					920					925			
Lys	Ala	Val	Asn	Pro	Asn	Ile	Arg	Asp	Asp	Glu	Leu	Ala	Ala	Ile	Glu
	930					935					940				
Ser	Asn	Arg	Gln	Gln	Val	Leu	Glu	Ser	Leu	Asn	Gln	Ala	Gly	Trp	Arg
945					950					955					960
Leu	Asp	Ala	Leu	Arg	Leu	Ile	Val	Val	Thr	His	Gln				
			965						970						

<210> 9421

<211> 167

<212> PRT

<213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(157)

<220>
 <221>UNSURE
 <222>(167)

<400> 9421

Ala	Glu	Arg	Lys	Met	Val	Met	Glu	Pro	Tyr	Asn	Pro	Pro	Met	Asp	Pro
1				5					10					15	
Trp	Leu	Val	Ile	Leu	Tyr	Gln	Asp	Glu	His	Ile	Met	Val	Val	Asn	Lys
			20					25					30		
Pro	Ser	Gly	Leu	Leu	Ser	Val	Pro	Gly	Arg	Leu	Glu	Glu	His	Lys	Asp
		35					40					45			
Ser	Val	Met	Thr	Arg	Ile	Gln	Arg	Asp	Tyr	Pro	Gln	Ala	Glu	Ser	Val
		50				55					60				
His	Arg	Leu	Asp	Met	Ala	Thr	Ser	Gly	Val	Ile	Val	Val	Ala	Leu	Asn
65					70					75					80
Lys	Ala	Ala	Glu	Arg	Glu	Leu	Lys	Arg	Gln	Phe	Arg	Glu	Arg	Glu	Pro
				85					90					95	
Lys	Lys	Gln	Tyr	Val	Ala	Arg	Val	Trp	Gly	His	Pro	Ala	Gln	Ala	Glu
			100					105					110		
Gly	Leu	Val	Asp	Leu	Pro	Leu	Ile	Cys	Asp	Trp	Pro	Asn	Arg	Pro	Lys
		115					120					125			
Gln	Lys	Val	Cys	Tyr	Glu	Thr	Gly	Lys	Ala	Ala	Gln	Thr	Glu	Tyr	Glu
		130				135					140				
Val	Leu	Glu	Tyr	Ala	Arg	His	Asn	Val	Phe	Ile	Thr	Xaa	Arg	Gln	Ile
145					150					155					160
Arg	His	Asn	Leu	Thr	Gln	Xaa									
					165										

<210> 9422
 <211> 471
 <212> PRT
 <213> Enterobacter cloacae

<400> 9422

Arg	Gly	Val	Ile	Met	Ala	Lys	Thr	Leu	Tyr	Glu	Lys	Leu	Phe	Asp	Ala
1				5					10					15	
His	Val	Val	Tyr	Glu	Ala	Pro	Asn	Glu	Thr	Pro	Leu	Leu	Tyr	Ile	Asp
			20					25					30		
Arg	His	Leu	Val	His	Glu	Val	Thr	Ser	Pro	Gln	Ala	Phe	Asp	Gly	Leu
		35					40					45			
Arg	Ala	His	Lys	Arg	Pro	Val	Arg	Gln	Pro	Gly	Lys	Thr	Phe	Ala	Thr
		50				55					60				
Met	Asp	His	Asn	Val	Ser	Thr	Gln	Thr	Lys	Asp	Ile	Asn	Ala	Ser	Gly
65					70					75					80
Glu	Met	Ala	Arg	Ile	Gln	Met	Gln	Glu	Leu	Ile	Lys	Asn	Cys	Asn	Glu
				85					90					95	
Phe	Gly	Val	Glu	Leu	Tyr	Asp	Leu	Asn	His	Pro	Tyr	Gln	Gly	Ile	Val
			100				105						110		
His	Val	Met	Gly	Pro	Glu	Gln	Gly	Ile	Thr	Leu	Pro	Gly	Met	Thr	Ile
		115					120					125			
Val	Cys	Gly	Asp	Ser	His	Thr	Ala	Thr	His	Gly	Ala	Phe	Gly	Ala	Leu
		130				135					140				
Ala	Phe	Gly	Ile	Gly	Thr	Ser	Glu	Val	Glu	His	Val	Leu	Ala	Thr	Gln
145					150					155					160
Thr	Leu	Lys	Gln	Gly	Arg	Ala	Lys	Thr	Met	Lys	Ile	Glu	Val	Lys	Gly
			165						170					175	
Lys	Ala	Ala	Pro	Gly	Ile	Thr	Ala	Lys	Asp	Ile	Val	Leu	Ala	Ile	Ile


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<210> 9423
<211> 537
<212> PRT
<213> Enterobacter cloacae
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<400> 9423															
Met	Ala	Thr	Arg	Arg	Gln	Pro	Leu	Ile	Pro	Gly	Trp	Leu	Val	Pro	Gly
1				5					10					15	
Leu	Leu	Ala	Ala	Val	Leu	Met	Val	Val	Val	Ser	Leu	Gly	Ala	Phe	Leu
			20					25					30		
Ala	Leu	Trp	Phe	Asn	Ala	Pro	Glu	Ser	Asp	Leu	Leu	Ala	Leu	Trp	His
		35					40					45			
Asp	Ser	Tyr	Leu	Trp	His	Val	Ile	Arg	Phe	Ser	Phe	Trp	Gln	Ala	Phe
	50					55					60				
Leu	Ser	Ala	Leu	Leu	Ser	Ala	Ile	Pro	Ala	Ile	Phe	Leu	Ala	Arg	Ala
65					70					75				80	
Leu	Tyr	Arg	Arg	Arg	Phe	Pro	Gly	Arg	Leu	Ala	Leu	Leu	Arg	Leu	Cys
				85					90					95	
Ala	Met	Thr	Leu	Ile	Leu	Pro	Val	Leu	Val	Ala	Val	Phe	Gly	Ile	Leu
			100					105					110		
Ser	Val	Tyr	Gly	Arg	Gln	Gly	Trp	Leu	Ala	Ser	Leu	Phe	Asn	Leu	Leu
		115					120					125			
Gly	Leu	Glu	Trp	Thr	Phe	Ser	Pro	Tyr	Gly	Leu	Lys	Gly	Ile	Leu	Leu

130	135	140
Ala His Ile Phe Phe Asn Met Pro Met Ala Thr Arg Leu Phe Leu Gln		
145	150	155
Ala Leu Glu Asn Ile Pro Gly Glu Gln Arg Gln Ile Ala Ala Gln Leu		
	165	170
Gly Met Arg Gly Trp Ser Phe Phe Arg Phe Val Glu Trp Pro Trp Leu		
	180	185
Arg Arg Gln Ile Ala Pro Val Ala Ala Leu Ile Phe Met Leu Cys Phe		
	195	200
Ala Ser Phe Ala Thr Val Leu Ser Leu Gly Gly Gly Pro Gln Ala Thr		
	210	215
Thr Ile Glu Leu Ala Ile Tyr Gln Ala Leu Ser Tyr Asp Tyr Asp Pro		
225	230	235
Gly Arg Ala Ala Leu Leu Ala Ile Val Gln Met Val Cys Cys Leu Ala		
	245	250
Leu Val Leu Leu Ser Gln Arg Leu Ser Lys Ala Ile Pro Thr Gly Ser		
	260	265
Asn Asn Leu Thr Gly Trp Arg Asp Pro Gln Asp Ser Leu His Ser Arg		
	275	280
Val Ala Asp Phe Met Leu Ile Ala Leu Ala Leu Leu Leu Leu Pro		
	290	295
Pro Leu Leu Ala Val Ile Val Asp Gly Leu Asn Arg Asn Val Leu Ser		
305	310	315
Val Leu Gln Gln Pro Val Leu Trp Gln Ala Thr Trp Thr Ser Leu Arg		
	325	330
Ile Ala Leu Ala Ala Gly Leu Leu Cys Val Ile Leu Thr Met Met Leu		
	340	345
Leu Trp Ser Ser Arg Glu Leu His Ala Arg His Ala Arg Lys Ala Gly		
	355	360
His Ala Leu Glu Leu Thr Gly Met Leu Ile Leu Ala Met Pro Gly Ile		
	370	375
Val Leu Ala Thr Gly Phe Phe Leu Leu Phe Asn Ser Thr Ile Gly Leu		
385	390	395
Pro Glu Ser Ala Asp Gly Ile Val Ile Phe Thr Asn Ala Leu Met Ala		
	405	410
Ile Pro Tyr Ala Leu Lys Val Leu Glu Asn Pro Met Arg Asp Val Asn		
	420	425
Ser Arg Tyr Ser Leu Leu Cys Gln Ser Leu Gly Met Gln Gly Trp Gln		
	435	440
Arg Leu Lys Val Val Glu Leu Arg Ala Leu Lys Arg Pro Leu Ala Gln		
	450	455
Ala Leu Ala Phe Ala Cys Val Leu Ser Ile Gly Asp Phe Gly Val Val		
465	470	475
Ala Leu Phe Gly Asn Glu Asp Phe Arg Thr Leu Pro Phe Trp Leu Tyr		
	485	490
Gln Gln Ile Gly Ser Tyr Arg Ser Gln Asp Gly Ala Val Thr Ala Leu		
	500	505
Leu Leu Leu Leu Cys Phe Ala Leu Phe Thr Val Ile Glu Lys Leu		
	515	520
Pro Gly Arg Asp Val Lys Thr Asp		525
530	535	

<210> 9424

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9424

Arg Glu Gln Gln Gly Asn Arg Val Met Ser Lys Asn Tyr His Ile Ala
1 5 10 15
Val Leu Pro Gly Asp Gly Ile Gly Pro Glu Val Met Ala Gln Ala Leu

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<210> 9425
<211> 207
<212> PRT
<213> Enterobacter cloacae
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<400> 9425															
Asn	Lys	Glu	Thr	Ile	Met	Ala	Glu	Lys	Phe	Thr	Gln	His	Thr	Gly	Arg
1				5					10					15	
Val	Val	Pro	Leu	Asp	Ala	Ala	Asn	Val	Asp	Thr	Asp	Ala	Ile	Ile	Pro
			20					25					30		
Lys	Gln	Phe	Leu	Gln	Lys	Val	Thr	Arg	Thr	Gly	Phe	Gly	Ala	His	Leu
		35					40					45			
Phe	Asn	Asp	Trp	Arg	Phe	Leu	Asp	Asp	Lys	Gly	Glu	Val	Pro	Asn	Pro
	50					55					60				
Glu	Phe	Val	Leu	Asn	Phe	Pro	Glu	Tyr	Lys	Gly	Ala	Ser	Ile	Leu	Leu

65					70				75				80		
Ala	Arg	Glu	Asn	Phe	Gly	Cys	Gly	Ser	Ser	Arg	Glu	His	Ala	Pro	Trp
			85						90					95	
Ala	Leu	Thr	Asp	Tyr	Gly	Phe	Lys	Val	Val	Ile	Ala	Pro	Ser	Phe	Ala
			100					105					110		
Asp	Ile	Phe	Tyr	Gly	Asn	Ser	Phe	Asn	Asn	Gln	Leu	Leu	Pro	Val	Thr
		115					120					125			
Leu	Ser	Asp	Glu	Gln	Val	Asp	Glu	Leu	Phe	Ala	Leu	Val	Gln	Ala	Asn
		130				135					140				
Pro	Gly	Ile	Ser	Phe	Glu	Val	Asp	Leu	Glu	Ala	Glu	Val	Val	Lys	Ala
145					150					155					160
Gly	Asp	Lys	Thr	Tyr	Ser	Phe	Ser	Ile	Asp	Ala	Phe	Arg	Arg	His	Cys
			165						170					175	
Met	Leu	Asn	Gly	Leu	Asp	Ser	Ile	Gly	Leu	Thr	Leu	Gln	His	Glu	Glu
		180						185				190			
Ala	Ile	Ala	Ala	Tyr	Glu	Lys	Lys	Gln	Pro	Ala	Phe	Met	Gly		
		195					200					205			

<210> 9426

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9426

Phe	Phe	Val	Arg	Ser	Ser	Pro	Phe	Met	Pro	Ser	Gly	Arg	Leu	Gln	Gln
1				5					10					15	
Gln	Phe	Ile	Arg	Leu	Trp	Gln	Cys	Cys	Glu	Gly	Gln	Ser	Gln	Glu	Thr
			20					25					30		
Thr	Leu	Asn	Glu	Leu	Ala	Glu	Leu	Leu	Asn	Cys	Ser	Arg	Arg	His	Met
		35				40						45			
Arg	Thr	Leu	Leu	Asn	Thr	Met	Gln	Gln	Gln	Gly	Trp	Leu	Asn	Trp	Glu
	50				55						60				
Ala	Glu	Ala	Gly	Arg	Gly	Lys	Arg	Ser	Arg	Leu	Thr	Phe	Leu	Tyr	Thr
65				70						75				80	
Gly	Leu	Ala	Leu	Gln	Gln	Gln	Arg	Ala	Glu	Asp	Leu	Leu	Glu	Gln	Asp
			85						90					95	
Arg	Ile	Asp	Gln	Leu	Val	Gln	Leu	Val	Gly	Asp	Lys	Ala	Ala	Val	Arg
		100						105					110		
Gln	Met	Leu	Val	Ser	His	Leu	Gly	Arg	Ser	Phe	Arg	Gln	Gly	Arg	His
		115					120					125			
Ile	Leu	Arg	Val	Leu	Tyr	Tyr	Arg	Pro	Met	Lys	Asn	Leu	Leu	Pro	Gly
	130				135						140				
Thr	Ala	Leu	Arg	Arg	Ser	Glu	Thr	His	Met	Ala	Arg	Gln	Ile	Phe	Ser
145				150						155					160
Gly	Leu	Thr	Arg	Ile	Asn	Glu	Glu	Asn	Gly	Glu	Leu	Glu	Ala	Asp	Ile
			165						170					175	
Ala	His	His	Trp	Gln	Gln	Leu	Ser	Pro	Arg	His	Trp	Arg	Phe	Phe	Leu
		180						185					190		
Arg	Pro	Gly	Ile	His	Phe	His	His	Gly	Arg	Glu	Leu	Glu	Met	Arg	Asp
		195					200					205			
Val	Ile	Asp	Ser	Leu	Glu	Arg	Ala	Arg	Thr	Leu	Pro	Leu	Tyr	Ser	His
	210					215					220				
Ile	Ala	Arg	Ile	His	Ser	Pro	Thr	Ala	Trp	Thr	Leu	Asp	Ile	Glu	Leu
225				230						235					240
Ser	Gln	Pro	Asp	Lys	Trp	Leu	Pro	Trp	Leu	Leu	Gly	Tyr	Val	Pro	Ser
			245						250					255	
Met	Ile	Leu	Pro	Ala	Glu	Trp	Arg	Ser	Leu	Asn	Asn	Phe	Ser	Ser	Gln
		260						265					270		
Pro	Ile	Gly	Thr	Gly	Pro	Tyr	Ser	Val	Thr	Arg	Asn	Asn	Ser	Asn	Gln
		275					280					285			
Leu	Lys	Ile	Arg	Ala	Phe	Asp	Asp	Tyr	Phe	Gly	Tyr	Arg	Ala	Leu	Ile

290	295	300
Asp Glu Val Asn Val Trp Val Leu Pro Asp Leu Asn Glu Glu Leu Ser		
305	310	315
Ala Gly Leu Thr Leu Glu Gly Pro Thr Ala Gly Glu Lys Ala Phe Glu		
	325	330
Ser Arg Leu Glu Glu Gly Cys Tyr Tyr Leu Leu Phe Asp Ser Arg Ser		
	340	345
His Arg Gly Ala Asn His Asp Val Arg Arg Trp Ile Ser His Ile Leu		
	355	360
Ala Pro Ala Asn Leu Ile Tyr His Ala Glu Glu Gln Tyr Gln Thr Trp		
	370	375
Trp Phe Pro Ala Tyr Gly Leu Leu Pro Arg Trp His His Ala Gln Pro		
385	390	395
Val Arg Ser Glu Lys Pro Ala Gly Leu Glu Thr Ile Thr Leu Ser Tyr		
	405	410
Tyr Arg Asp His Ile Glu His Arg Phe Ile Ala Arg Ile Met Ser Thr		
	420	425
Leu Leu Ala Ala Glu Gly Val Thr Leu Ala Ile Gln Glu Val Asp Tyr		
	435	440
Asp Glu Trp His Arg Gly Asp Val Ile Ser Asp Ile Trp Leu Asn Ser		
	450	455
Ala Asn Phe Thr Leu Pro Leu Asp Phe Ser Leu Phe Ser His Leu Tyr		
465	470	475
Glu Val Pro Leu Ile Gln His Cys Ile Asn Arg Asp Trp Gln Gln Asp		
	485	490
Ala Ala Arg Trp Arg Ala Gly Glu Met Asp Leu Ala Ala Trp Cys Gln		
	500	505
Glu Leu Leu Ala Gly Gln Thr Ile Val Pro Leu Ile His His Trp Leu		
	515	520
Leu Ile Gln Gly Gln Arg Ser Met Arg Gly Leu Arg Met Asn Thr Leu		
	530	535
Gly Trp Phe Asp Phe Lys Ser Ala Trp Phe Ala Pro Pro Glu Pro		
545	550	555
		560

<210> 9427

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 9427

Arg Arg Arg Arg Asp Leu Arg Leu Ser Leu Lys Ile Leu Cys His Ser	
1	5
Thr Leu Arg Cys Lys Val Leu Lys Asn Val Leu Pro Leu Leu Ala Leu	
	20
Phe Ala Leu Pro Val Phe Ala Lys Pro Val Leu Thr Val Tyr Thr Tyr	
	35
Asp Ser Phe Ser Ala Asp Trp Gly Pro Gly Pro Val Val Lys Lys Ala	
	50
Phe Glu Ala Asp Cys Asn Cys Glu Leu Lys Phe Val Ala Leu Glu Asp	
65	70
Gly Val Ser Leu Leu Asn Arg Leu Arg Met Glu Gly Lys Asn Ser Lys	
	85
Ala Asp Val Val Leu Gly Leu Asp Asn Asn Leu Leu Glu Ala Ala Thr	
	100
Gln Thr Arg Leu Phe Ala Lys Ser Gly Val Ala Ala Asp Ala Val Asn	
	115
Val Pro Gly Gly Trp Lys Asn Asp Thr Phe Val Pro Phe Asp Tyr Gly	
	130
Tyr Phe Ala Phe Val Tyr Asp Lys Asn Lys Leu Lys Asn Pro Pro Lys	
145	150
Ser Leu Lys Glu Leu Val Glu Ser Asp Gln Lys Trp Arg Val Ile Tyr	
	155
	160

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<210> 9428
<211> 307
<212> PRT
<213> Enterobacter cloacae
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<400> 9428															
Ser 1	Val	Arg	Trp	Pro 5	Arg	Arg	Trp	Arg	Leu 10	Pro	Ala	Cys	Cys	Arg 15	Leu
Ala	Ile	Leu	Ala 20	Leu	Trp	Pro	Ser	Ser 25	Ala	Thr	Arg	Ile	Ser 30	Ala	Arg
Cys	Arg	Ser 35	Gly	Phe	Ile	Ser	Lys 40	Leu	Ala	Pro	Ile	Val 45	Ala	Arg	Thr
Ala	Pro 50	Ser	Arg	Arg	Tyr	Ser 55	Cys	Cys	Cys	Cys	Ala 60	Leu	Arg	Tyr	Leu
Pro 65	Leu	Ser	Lys	Asn 70	Phe	Arg	Gly	Val	Met	Leu 75	Lys	Leu	Thr	Asp 80	Val
Thr	Trp	Leu	Tyr	Glu 85	His	Leu	Pro	Met	Arg 90	Phe	Thr	Leu	Ser	Val 95	Arg
Gln	Gly	Glu	Arg 100	Ile	Ala	Val	Leu	Gly 105	Pro	Ser	Gly	Ala	Gly 110	Lys	Ser
Thr	Leu	Leu	Asn 115	Leu	Ile	Ala	Gly 120	Phe	Leu	Gln	Pro	Ala 125	Ser	Gly	Ser
Ile	Val 130	Ile	Asp	Asn	Gly	Glu 135	Tyr	Thr	Tyr	Ala	Pro 140	Pro	Ala	Lys	Arg
Pro 145	Val	Ser	Met	Leu	Phe 150	Gln	Glu	Asn	Asn	Leu 155	Phe	Asn	His	Leu	Thr 160
Val	Trp	Gln	Asn	Ile 165	Ala	Leu	Gly	Met	Asp 170	Pro	Gly	Leu	Lys	Leu 175	Asn
Val	Ala	Gln	Arg 180	Gln	Thr	Leu	Glu	Ala 185	Ile	Ala	Glu	Gln	Met 190	Gly	Leu
Ala	Ala	Phe 195	Ile	Asn	Arg	Leu	Pro 200	Gly	Glu	Leu	Ser	Gly 205	Gly	Gln	Arg
Gln	Arg 210	Val	Ala	Leu	Ala	Arg 215	Cys	Leu	Val	Arg	Lys 220	Gln	Pro	Leu	Leu
Leu 225	Leu	Asp	Glu	Pro	Phe 230	Ser	Ala	Leu	Asp	Pro 235	Ala	Leu	Arg	Gln	Glu 240
Met	Leu	Ser	Leu	Val	Glu	Glu	Val	Cys	Glu	Arg	Glu	Gln	Leu	Thr	Met

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<210> 9429
<211> 590
<212> PRT
<213> Enterobacter cloacae
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<400>	9429														
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1			5						10					15	
Trp	Ser	Asn	Thr	Met	Ala	Ile	Ala	Ile	Gly	Leu	Asp	Phe	Gly	Ser	Asp
			20					25					30		
Ser	Val	Arg	Ala	Leu	Ala	Val	Asp	Cys	Thr	Thr	Gly	Gln	Glu	Ile	Ala
		35					40					45			
Thr	Ser	Val	Glu	Trp	Tyr	Pro	Arg	Trp	Gln	Glu	Gly	Arg	Tyr	Cys	Asp
	50					55					60				
Ala	Pro	Asn	Asn	Gln	Phe	Arg	His	His	Pro	Arg	Asp	Tyr	Ile	Glu	Ser
65				70					75					80	
Met	Glu	Ala	Ala	Ile	Lys	Thr	Val	Leu	Ala	Glu	Leu	Thr	Asp	Ala	Gln
			85						90					95	
Arg	Ala	Asp	Val	Val	Gly	Ile	Gly	Val	Asp	Ser	Thr	Gly	Ser	Thr	Pro
			100					105					110		
Ala	Pro	Val	Asp	Ala	Glu	Gly	Arg	Val	Leu	Ala	Leu	Arg	Pro	Glu	Phe
		115					120					125			
Ala	Asp	Asn	Pro	Asn	Ala	Met	Phe	Val	Leu	Trp	Lys	Asp	His	Thr	Ala
	130					135					140				
Val	Glu	Glu	Ala	Glu	Ala	Ile	Thr	Arg	Leu	Cys	Leu	Gln	Pro	Gly	Lys
145				150					155						160
Thr	Asp	Tyr	Ser	Arg	Tyr	Ile	Gly	Gly	Ile	Tyr	Ser	Ser	Glu	Trp	Phe
			165						170					175	
Trp	Ala	Lys	Ile	Leu	His	Val	Thr	Arg	Ala	Asp	Ala	Ser	Val	Ala	Gln
			180					185					190		
Ala	Ala	Ala	Ser	Trp	Ile	Glu	Leu	Cys	Asp	Trp	Val	Pro	Ala	Leu	Leu
		195					200					205			
Ser	Gly	Thr	Thr	Arg	Pro	Gln	Asp	Ile	Arg	Arg	Gly	Arg	Cys	Ser	Ala
	210					215					220				
Gly	His	Lys	Ser	Leu	Trp	His	Glu	Ser	Trp	Gly	Gly	Leu	Pro	Pro	Ala
225				230					235					240	
Ala	Phe	Phe	Asp	Glu	Leu	Asp	Pro	Ile	Ile	Asn	Lys	Asn	Leu	Thr	Tyr
			245						250				255		
Pro	Leu	Phe	Thr	Asp	Thr	Phe	Thr	Ala	Asp	Ile	Pro	Val	Gly	Thr	Leu
			260					265					270		
Cys	Glu	Glu	Trp	Ala	Lys	Arg	Leu	Gly	Leu	Pro	Gln	Asn	Val	Thr	Ile
		275					280					285			
Ser	Gly	Gly	Ala	Phe	Asp	Cys	His	Met	Gly	Ala	Val	Gly	Ala	Gly	Ala
	290					295					300				
Gln	Pro	Asn	Thr	Leu	Val	Lys	Val	Ile	Gly	Thr	Ser	Thr	Cys	Asp	Ile
305				310					315					320	
Leu	Thr	Ala	Asp	Lys	Ala	Ser	Val	Gly	Asp	Arg	Ala	Val	Lys	Gly	Ile
			325						330					335	
Cys	Gly	Gln	Val	Asp	Gly	Ser	Val	Val	Pro	Asp	Phe	Ile	Gly	Leu	Glu
			340												

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<210> 9430
<211> 276
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Arg	Ala	Ala	Leu 5	Glu	Arg	Ser	Leu 10	Leu	Arg	Phe	Lys	Thr	Leu 15	Ser
Pro	Glu	Cys	Pro	Val	Ala	Leu	Arg	Leu 25	Pro	Gly	Leu	Arg	Phe	Cys	Arg
Pro	Asp	Lys	Arg	Ser	Ala	Ile	Trp	Gln	Glu	Thr	Thr	Met	Leu	Glu	Asp
Leu	Lys	Arg	Gln	Val	Leu	Glu	Ala	Asn	Leu	Ala	Leu	Pro	Lys	His	Asn
Leu 65	Val	Thr	Leu	Thr	Trp	Gly	Asn	Val	Ser	Ala	Val	Asp	Arg	Glu	Lys
Gly	Val	Phe	Val	Ile	Lys	Pro	Ser	Gly	Val	Asp	Tyr	Thr	Val	Met	Thr
Ala	Glu	Asp	Met	Val	Val	Val	Ser	Ile	Glu	Thr	Gly	Glu	Val	Val	Glu
Gly	Lys	Lys	Lys	Pro	Ser	Ser	Asp	Thr	Pro	Thr	His	Arg	Leu	Leu	Tyr
Gln	Ala	Phe	Pro	Thr	Ile	Gly	Gly	Ile	Val	His	Thr	His	Ser	Arg	His
Ala 145	Thr	Ile	Trp	Ala	Gln	Ala	Gly	Gln	Pro	Ile	Pro	Ala	Thr	Gly	Thr
Thr	His	Ala	Asp	Tyr	Phe	Tyr	Gly	Thr	Ile	Pro	Cys	Thr	Arg	Leu	Met
Thr	Asp	Ala	Glu	Ile	Asn	Gly	Glu	Tyr	Glu	Trp	Glu	Thr	Gly	Asn	Val
Ile	Val	Glu	Thr	Phe	Glu	Lys	Gln	Gly	Ile	Asp	Ala	Ala	Gln	Met	Pro

	195		200		205
Gly	Val	Leu	Val	His	Ser
	210			215	
Glu	Asp	Ala	Val	His	Asn
225				230	
Gly	Ile	Phe	Cys	Arg	Gln
				245	
Thr	Leu	Leu	Asp	Lys	His
			260		
Tyr	Gly	Gln			
	275				

<210> 9431

<211> 838

<212> PRT

<213> Enterobacter cloacae

<400> 9431

Thr	Phe	Ala	Arg	Cys	Arg	Cys	Ala	Tyr	Arg	Asp	Cys	Gly	Thr	Cys	Arg
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Pro	Asp	Lys	Arg	Ser	Ala	Ile	Arg	Leu	Asn	Arg	His	Cys	Ile	Lys	Pro
			20					25					30		
Gln	Gln	Thr	Pro	Leu	Asn	Gln	Ala	Ile	Ile	Arg	Pro	Gly	Phe	Val	Leu
		35				40						45			
Trp	Asp	Asn	Ala	Val	Thr	Gln	Ala	Gln	Glu	Gly	Phe	Leu	Leu	Thr	Arg
	50					55				60					
His	Trp	Arg	Asp	Thr	Pro	Gln	Gly	Thr	Glu	Val	Glu	Phe	Trp	Leu	Ala
65				70					75					80	
Thr	Asp	Asn	Gly	Pro	Leu	Asn	Val	Thr	Leu	Pro	Pro	Gln	Glu	Ser	Val
			85					90						95	
Ala	Phe	Ile	Pro	Glu	Ala	His	Val	Glu	Lys	Val	Lys	Gln	Leu	Leu	Arg
			100					105						110	
Gly	Glu	Asn	Gly	Trp	Arg	Ile	Thr	Pro	Leu	Glu	Leu	Lys	Asp	Phe	His
		115					120					125			
Arg	Gln	Pro	Val	Tyr	Gly	Leu	Tyr	Cys	Arg	Ala	His	Arg	Gln	Leu	Met
	130					135				140					
Arg	Tyr	Glu	Lys	Leu	Leu	Arg	Glu	Ala	Gly	Val	Thr	Leu	Tyr	Glu	Ala
145				150					155					160	
Asp	Ile	Arg	Pro	Pro	Glu	Arg	Phe	Leu	Met	Glu	Arg	Phe	Ile	Thr	Ala
			165					170						175	
Pro	Val	Trp	Val	Asp	Gly	Thr	Ala	Gln	Asn	Gly	Arg	Ile	Val	Asn	Ala
			180					185					190		
Arg	Leu	Lys	Pro	Ser	Pro	Asn	Tyr	Arg	Pro	Pro	Leu	Lys	Trp	Val	Ser
	195					200						205			
Leu	Asp	Ile	Glu	Thr	Thr	Arg	His	Gly	Glu	Leu	Tyr	Cys	Ile	Gly	Leu
	210				215						220				
Glu	Gly	Cys	Gly	Gln	Arg	Val	Val	Tyr	Met	Leu	Gly	Pro	Pro	Asn	Gly
225					230				235					240	
Asp	Ala	Ser	Ala	Leu	Asp	Phe	Asn	Leu	Glu	Tyr	Val	Asn	Ser	Arg	Pro
			245					250						255	
Gln	Leu	Leu	Glu	Lys	Leu	Asn	Gln	Trp	Phe	Ala	Glu	His	Asp	Pro	Asp
			260					265					270		
Val	Leu	Ile	Gly	Trp	Asn	Val	Val	Gln	Phe	Asp	Leu	Arg	Val	Leu	Gln
		275					280					285			
Lys	His	Ala	Glu	Arg	Tyr	Arg	Ile	Pro	Leu	Met	Leu	Gly	Arg	Gly	Asn
	290					295				300					
Ser	Glu	Leu	Glu	Trp	Arg	Glu	His	Gly	Phe	Lys	Asn	Gly	Val	Phe	Phe
305					310				315					320	
Ala	Gln	Ala	Asn	Gly	Arg	Leu	Ile	Ile	Asp	Gly	Ile	Glu	Ala	Leu	Lys
			325					330						335	
Ser	Ala	Phe	Trp	Asn	Phe	Ser	Ser	Phe	Ser	Leu	Glu	Ala	Val	Ala	Gln

Glu	Leu	Leu	Gly	Glu	Gly	Lys	Ser	Ile	Asp	Asn	Pro	Trp	Asp	Arg	Met
		355					360					365			
Asp	Glu	Ile	Asp	Arg	Arg	Phe	Asn	Glu	Asp	Lys	Pro	Ala	Leu	Ala	Thr
	370					375					380				
Tyr	Asn	Leu	Lys	Asp	Cys	Glu	Leu	Val	Thr	Gln	Ile	Phe	His	Lys	Thr
385					390					395					400
Glu	Ile	Met	Pro	Phe	Leu	Leu	Glu	Arg	Ala	Thr	Val	Asn	Gly	Leu	Ala
				405					410					415	
Val	Asp	Arg	His	Gly	Gly	Ser	Val	Ala	Ala	Phe	Ser	His	Leu	Tyr	Phe
			420					425					430		
Pro	Arg	Met	His	Arg	Ala	Gly	Tyr	Val	Ala	Pro	Asn	Leu	Gly	Asp	Val
		435					440					445			
Pro	Pro	Gln	Ala	Ser	Pro	Gly	Gly	Tyr	Val	Met	Asp	Ser	Arg	Pro	Gly
		450				455					460				
Leu	Tyr	Asp	Ser	Val	Leu	Val	Leu	Asp	Tyr	Lys	Ser	Leu	Tyr	Pro	Ser
465					470					475					480
Ile	Ile	Arg	Thr	Phe	Leu	Ile	Asp	Pro	Val	Gly	Leu	Val	Glu	Gly	Met
				485					490					495	
Ala	Gln	Pro	Asp	Asp	Ala	His	Ser	Thr	Glu	Gly	Phe	Leu	Gly	Ala	Arg
			500					505					510		
Phe	Ser	Arg	Glu	Lys	His	Cys	Leu	Pro	Glu	Ile	Val	Gly	Asn	Ile	Trp
		515					520					525			
His	Gly	Arg	Asp	Glu	Ala	Lys	Arg	His	Gly	Asn	Lys	Pro	Leu	Ser	Gln
	530					535					540				
Ala	Leu	Lys	Ile	Ile	Met	Asn	Ala	Phe	Tyr	Gly	Val	Leu	Gly	Thr	Ser
545					550					555					560
Ala	Cys	Arg	Phe	Phe	Asp	Pro	Arg	Leu	Ala	Ser	Ser	Ile	Thr	Met	Arg
				565					570					575	
Gly	His	Glu	Ile	Met	Arg	Gln	Thr	Lys	Ala	Leu	Ile	Glu	Ser	Arg	Gly
			580					585					590		
Tyr	Asp	Val	Ile	Tyr	Gly	Asp	Thr	Asp	Ser	Thr	Phe	Val	Trp	Leu	Lys
		595					600					605			
Ala	Ala	His	Ser	Glu	Asp	Asp	Ala	Ala	Gln	Ile	Gly	Lys	Asp	Leu	Val
	610					615					620				
Ala	Phe	Val	Asn	Asp	Trp	Trp	Arg	Glu	Ser	Leu	Gln	Lys	Glu	Arg	Leu
625					630					635					640
Thr	Ser	Ala	Leu	Glu	Leu	Glu	Phe	Glu	Thr	His	Phe	Ala	Arg	Phe	Leu
				645					650					655	
Met	Pro	Thr	Ile	Arg	Gly	Thr	Asp	Gln	Gly	Ser	Lys	Lys	Arg	Tyr	Ala
			660					665					670		
Gly	Leu	Ile	Gln	Glu	Gly	Asp	Thr	Gln	Arg	Met	Val	Phe	Lys	Gly	Leu
		675					680					685			
Glu	Thr	Val	Arg	Thr	Asp	Trp	Thr	Pro	Leu	Ala	Gln	Gln	Phe	Gln	Gln
		690													

Gln Leu Gly Leu Phe
835

<210> 9432

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 9432

Ala	Glu	Ser	Leu	Ile	Arg	Phe	Leu	Thr	Gly	Ile	Val	Met	Gln	Ala	Leu
1				5					10					15	
Leu	Glu	His	Phe	Ile	Thr	Gln	Ser	Val	Met	Tyr	Ser	Leu	Ile	Ala	Val
			20					25					30		
Ala	Leu	Val	Ala	Phe	Leu	Glu	Ser	Leu	Ala	Leu	Val	Gly	Leu	Ile	Leu
		35					40					45			
Pro	Gly	Thr	Val	Met	Met	Ala	Gly	Leu	Gly	Ala	Leu	Ile	Gly	Ser	Gly
	50					55					60				
Glu	Val	Asn	Phe	Trp	Gln	Ala	Trp	Met	Ala	Gly	Ile	Ile	Gly	Cys	Leu
65					70					75					80
Leu	Gly	Asp	Trp	Ile	Ser	Phe	Trp	Leu	Gly	Trp	Arg	Phe	Lys	Lys	Pro
			85						90					95	
Leu	His	Arg	Trp	Ser	Phe	Met	Lys	Lys	Asn	Lys	Ala	Leu	Leu	Asp	Lys
			100					105						110	
Thr	Glu	His	Ala	Leu	His	Gln	His	Ser	Met	Phe	Thr	Ile	Leu	Val	Gly
		115				120						125			
Arg	Phe	Val	Gly	Pro	Thr	Arg	Pro	Leu	Val	Pro	Met	Val	Ala	Gly	Met
	130					135					140				
Leu	Asp	Leu	Pro	Val	Ala	Lys	Phe	Val	Val	Pro	Asn	Ile	Ile	Gly	Cys
145					150					155					160
Val	Phe	Trp	Pro	Pro	Phe	Tyr	Phe	Leu	Pro	Gly	Ile	Leu	Ala	Gly	Ala
			165						170					175	
Ala	Ile	Asp	Ile	Pro	Asp	Gly	Met	Gln	Ser	Gly	Glu	Phe	Lys	Trp	Leu
			180					185					190		
Leu	Leu	Gly	Thr	Ala	Val	Leu	Leu	Trp	Leu	Ala	Val	Trp	Leu	Cys	Trp
		195				200					205				
Arg	Leu	Trp	Arg	Ser	Ala	Lys	Ala	Ser	Val	Asp	Arg	Leu	Thr	Arg	Tyr
	210				215					220					
Leu	Pro	Arg	Thr	Arg	Leu	Leu	Trp	Leu	Ala	Pro	Leu	Thr	Leu	Gly	Val
225					230					235					240
Ala	Val	Val	Ala	Leu	Ile	Ala	Leu	Ile	Arg	His	Pro	Leu	Met	Pro	Val
			245						250					255	
Tyr	Gly	Glu	Ile	Leu	Leu	Lys	Val	Val	Ser	Arg					
			260					265							

<210> 9433

<211> 421

<212> PRT

<213> Enterobacter cloacae

<400> 9433

Ser	Pro	Ala	Ser	Lys	Met	Phe	Phe	Ala	Gly	Phe	Phe	Arg	Leu	Leu	Phe
1				5					10					15	
His	Pro	Ile	Ser	Ile	Arg	Phe	His	Lys	Asp	Leu	Arg	Met	Leu	Trp	Leu
			20					25					30		
Met	Thr	Met	Gly	Arg	Arg	Leu	Asn	Gly	Val	Tyr	Ala	Ala	Phe	Met	Leu
		35					40					45			
Val	Ala	Phe	Met	Met	Gly	Val	Ala	Gly	Ala	Leu	Gln	Ala	Pro	Thr	Leu
	50					55				60					
Ser	Leu	Phe	Leu	Ser	Arg	Glu	Val	Gly	Ala	Gln	Pro	Phe	Trp	Val	Gly
65					70					75					80
Leu	Phe	Tyr	Thr	Val	Asn	Ala	Ile	Ala	Gly	Ile	Leu	Val	Ser	Leu	Trp

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<210> 9434
<211> 171
<212> PRT
<213> Enterobacter cloacae
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Ala	Lys	Arg	Arg	Glu	Pro	Asp	Met	Arg	Arg	Ile	Leu	Ser	Val	Leu	Leu
1				5					10					15	
Glu	Asn	Glu	Ser	Gly	Ala	Leu	Ser	Arg	Val	Ile	Gly	Leu	Phe	Ala	Gln
			20					25					30		
Arg	Gly	Tyr	Asn	Ile	Glu	Ser	Leu	Thr	Val	Ala	Pro	Thr	Asp	Asp	Pro
		35					40					45			
Thr	Leu	Ser	Arg	Met	Thr	Ile	Gln	Thr	Val	Gly	Asp	Ala	Lys	Val	Leu
	50					55					60				
Glu	Gln	Ile	Glu	Lys	Gln	Leu	His	Lys	Leu	Val	Asp	Val	Leu	Arg	Val
65					70					75					80
Ser	Glu	Leu	Gly	Gln	Gly	Ala	Tyr	Val	Glu	Arg	Glu	Val	Met	Leu	Val

				85				90					95				
Lys	Ile	Gln	Ala	Ser	Gly	Tyr	Gly	Arg	Glu	Glu	Val	Lys	Arg	Asn	Thr		
			100					105					110				
Asp	Ile	Phe	Arg	Gly	Gln	Ile	Ile	Asp	Val	Thr	Pro	Ser	Ile	Tyr	Thr		
		115					120					125					
Val	Gln	Leu	Ala	Gly	Thr	Ser	Asp	Lys	Leu	Asp	Ala	Phe	Leu	Ala	Ser		
	130					135					140						
Val	Arg	Asp	Val	Ala	Lys	Ile	Val	Glu	Val	Ala	Arg	Ser	Gly	Val	Val		
145					150					155					160		
Gly	Leu	Ser	Arg	Gly	Asp	Lys	Ile	Met	Arg								
				165					170								

<210> 9435

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 9435

Phe	Ser	Ala	Ala	Tyr	Cys	Arg	Glu	Asp	Glu	Arg	Met	Ile	Ser	Arg	Val		
1				5					10					15			
Thr	Glu	Thr	Leu	Ser	Lys	Val	Lys	Gly	Ser	Leu	Gly	Ser	Asn	Glu	Arg		
			20					25					30				
His	Ala	Leu	Pro	Gly	Val	Ile	Gly	Asp	Asp	Leu	Leu	Arg	Phe	Gly	Lys		
		35					40					45					
Leu	Pro	Leu	Cys	Leu	Phe	Ile	Cys	Ile	Ile	Val	Thr	Ala	Val	Met	Val		
	50					55				60							
Val	Thr	Thr	Ala	His	His	Thr	Arg	Leu	Leu	Thr	Ala	Gln	Arg	Glu	Gln		
65					70					75					80		
Met	Val	Leu	Glu	Arg	Asp	Ala	Leu	Asp	Ile	Glu	Trp	Arg	Asn	Leu	Ile		
				85					90					95			
Leu	Glu	Glu	Asn	Ala	Leu	Gly	Asp	His	Ser	Arg	Val	Glu	Arg	Ile	Ala		
			100					105					110				
Thr	Glu	Lys	Leu	Gln	Leu	Gln	His	Val	Asp	Pro	Ser	Gln	Glu	Asn	Ile		
		115					120					125					
Val	Val	Gln	Lys														
		130															

<210> 9436

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 9436

Gly	Lys	Thr	Arg	Arg	Met	Lys	Ala	Ala	Ala	Lys	Thr	Leu	Lys	Pro	Lys		
1				5					10					15			
Arg	Gln	Glu	Glu	Gln	Ala	Asn	Phe	Val	Ser	Trp	Arg	Phe	Ala	Leu	Leu		
		20						25					30				
Cys	Gly	Cys	Ile	Leu	Leu	Ala	Leu	Gly	Phe	Leu	Leu	Gly	Arg	Val	Ala		
	35						40					45					
Trp	Leu	Gln	Ile	Ile	Ala	Pro	Asp	Met	Leu	Val	Arg	Gln	Gly	Asp	Met		
	50					55					60						
Arg	Ser	Leu	Arg	Val	Gln	Glu	Val	Ser	Thr	Ser	Arg	Gly	Met	Ile	Thr		
65					70					75					80		
Asp	Arg	Ser	Gly	Arg	Pro	Leu	Ala	Val	Ser	Val	Pro	Val	Lys	Ala	Ile		
				85					90					95			
Trp	Ala	Asp	Pro	Lys	Glu	Leu	His	Asp	Ala	Gly	Gly	Ile	Thr	Leu	Asp		
		100						105					110				
Asn	Arg	Trp	Lys	Ala	Leu	Ser	Asp	Ala	Leu	Lys	Met	Pro	Leu	Asp	Gln		
		115					120					125					
Leu	Ala	Ser	Arg	Val	Asn	Ala	Asn	Pro	Lys	Gly	Arg	Phe	Ile	Tyr	Leu		
	130					135					140						

Ala	Arg	Gln	Val	Asn	Pro	Asp	Met	Ala	Asp	Tyr	Ile	Lys	Lys	Leu	Lys
145					150					155					160
Leu	Pro	Gly	Ile	His	Leu	Arg	Glu	Glu	Ser	Arg	Arg	Tyr	Tyr	Pro	Ser
				165					170						175
Gly	Glu	Val	Thr	Ala	His	Leu	Ile	Gly	Phe	Thr	Asn	Val	Asp	Ser	Gln
			180					185					190		
Gly	Ile	Glu	Gly	Val	Glu	Lys	Ser	Phe	Asp	Lys	Trp	Leu	Thr	Gly	Gln
		195					200					205			
Pro	Gly	Glu	Arg	Ile	Val	Arg	Lys	Asp	Arg	Tyr	Gly	Arg	Val	Ile	Glu
	210					215					220				
Asp	Ile	Ser	Ser	Thr	Asp	Ser	Gln	Ala	Ala	His	Asn	Leu	Ala	Leu	Ser
225					230					235					240
Ile	Asp	Glu	Arg	Leu	Gln	Ala	Leu	Val	Tyr	Arg	Glu	Leu	Asn	Asn	Ala
				245					250					255	
Val	Ala	Phe	Asn	Lys	Ala	Glu	Ser	Gly	Ser	Ala	Val	Leu	Val	Asp	Val
			260					265					270		
Ala	Thr	Gly	Glu	Val	Leu	Ala	Met	Ala	Ser	Ser	Pro	Ser	Tyr	Asn	Pro
		275					280						285		
Asn	Asn	Phe	Ala	Gly	Thr	Ala	Lys	Asp	Ala	Met	Arg	Asn	Arg	Ser	Ile
	290					295					300				
Thr	Asp	Val	Phe	Glu	Pro	Gly	Ser	Thr	Val	Lys	Pro	Met	Val	Val	Met
305					310					315					320
Thr	Ala	Leu	Gln	Arg	Gly	Ile	Val	Asn	Glu	Asn	Thr	Val	Leu	Asn	Thr
				325					330					335	
Ile	Pro	Tyr	Arg	Ile	Asn	Gly	His	Glu	Ile	Lys	Asp	Val	Ala	Arg	Tyr
			340					345					350		
Ser	Glu	Leu	Thr	Leu	Thr	Gly	Val	Leu	Gln	Lys	Ser	Ser	Asn	Val	Gly
		355					360					365			
Val	Ser	Lys	Leu	Ala	Leu	Ala	Met	Pro	Ser	Ser	Ala	Leu	Val	Asp	Thr
	370					375					380				
Tyr	Ser	Arg	Phe	Gly	Leu	Gly	Lys	Ala	Thr	Asn	Leu	Gly	Leu	Val	Gly
385					390					395					400
Glu	Arg	Ser	Gly	Leu	Tyr	Pro	Gln	Lys	Gln	Arg	Trp	Ser	Asp	Ile	Glu
				405					410					415	
Arg	Ala	Thr	Phe	Ser	Phe	Gly	Tyr	Gly	Leu	Met	Val	Thr	Pro	Leu	Gln
			420					425					430		
Leu	Ala	Arg	Val	Tyr	Ala	Thr	Ile	Gly	Ser	Tyr	Gly	Ile	Tyr	Arg	Pro
		435					440					445			
Leu	Ser	Ile	Thr	Lys	Val	Asp	Pro	Pro	Val	Pro	Gly	Glu	Arg	Val	Phe
	450					455					460				
Pro	Glu	Ser	Ile	Val	Arg	Thr	Val	Val	His	Met	Met	Glu	Ser	Val	Ala
465					470					475					480
Leu	Pro	Gly	Gly	Gly	Gly	Val	Lys	Ala	Ala	Ile	Lys	Gly	Tyr	Arg	Ile
				485					490					495	
Ala	Ile	Lys	Thr	Gly	Thr	Ala	Lys	Lys	Val	Gly	Pro	Asp	Gly	Arg	Tyr
			500					505					510		
Ile	Asn	Lys	Tyr	Ile	Ala	Tyr	Thr	Ala	Gly	Val	Ala	Pro	Ala	Ser	Asn
	515						520					525			
Pro	Arg	Phe	Ala	Leu	Val	Val	Val	Ile	Asn	Asp	Pro	Gln	Ala	Gly	Lys
	530					535					540				
Tyr	Tyr	Gly	Gly	Ala	Val	Ser	Ala	Pro	Val	Phe	Gly	Ala	Ile	Met	Gly
545					550					555					560
Gly	Val	Leu	Arg	Thr	Met	Asn	Ile	Glu	Pro	Asp	Ala	Leu	Ala	Thr	Gly
				565					570					575	
Glu	Lys	Ser	Glu	Phe	Val	Ile	Asn	Gln	Gly	Glu	Gly	Thr	Gly	Gly	Arg
			580					585					590		
Ser															

<210> 9437

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 9437

Arg	Leu	Ser	Asp	Cys	Arg	Gln	Ser	Ser	Ser	Gly	Leu	Leu	Arg	Pro	Arg
1				5					10					15	
Asp	Gly	Ser	Ala	Ser	Ala	Gly	Ser	Gly	Gly	Met	Ile	Ser	Ile	Thr	Leu
			20					25					30		
Ser	Gln	Ala	Ala	Ala	Val	Leu	Gln	Gly	Met	Leu	His	Gly	Gln	Asp	Leu
		35					40					45			
Thr	Ile	Glu	Ala	Val	Thr	Thr	Asp	Thr	Arg	Lys	Val	Thr	Ala	Gly	Cys
	50					55					60				
Leu	Phe	Val	Ala	Leu	Lys	Gly	Glu	Arg	Phe	Asp	Ala	His	Asp	Phe	Ala
65					70					75					80
Gln	Gln	Ala	Lys	Asp	Asn	Gly	Ala	Gly	Ala	Leu	Leu	Val	Ser	Arg	Lys
				85				90						95	
Leu	Asp	Ile	Asp	Leu	Pro	Gln	Ile	Val	Val	Lys	Asp	Thr	Arg	Leu	Ala
			100					105					110		
Phe	Gly	Glu	Leu	Ala	Ala	Trp	Val	Arg	Gln	Gln	Val	Pro	Thr	Arg	Val
	115						120					125			
Val	Ala	Leu	Thr	Gly	Ser	Ser	Gly	Lys	Thr	Ser	Val	Lys	Glu	Met	Thr
	130					135					140				
Ala	Ala	Ile	Leu	Ser	Gln	Cys	Gly	Asn	Thr	Leu	Tyr	Thr	Ala	Gly	Asn
145					150					155					160
Leu	Asn	Asn	Asp	Ile	Gly	Val	Pro	Met	Thr	Leu	Leu	Arg	Leu	Thr	His
			165					170						175	
Glu	His	Glu	Tyr	Ala	Val	Ile	Glu	Leu	Gly	Ala	Asn	His	Gln	Gly	Glu
		180					185						190		
Ile	Ala	Trp	Thr	Val	Ser	Leu	Thr	Arg	Pro	Glu	Ala	Ala	Leu	Val	Asn
	195						200					205			
Asn	Leu	Ala	Ala	Ala	His	Leu	Glu	Gly	Phe	Gly	Ser	Leu	Ala	Gly	Val
	210					215					220				
Ala	Lys	Ala	Lys	Gly	Glu	Ile	Tyr	Thr	Gly	Leu	Pro	Asp	Asp	Gly	Ile
225				230						235					240
Ala	Ile	Met	Asn	Ala	Asp	Asn	Asn	Asp	Trp	Leu	Asn	Trp	Gln	Ser	Ile
			245					250						255	
Ile	Gly	Ser	Arg	Lys	Thr	Trp	Arg	Phe	Ser	Pro	Asn	Ala	Ala	Asn	Ser
		260					265						270		
Asp	Phe	Ser	Ala	Thr	Asn	Ile	His	Val	Thr	Ser	His	Gly	Thr	Glu	Phe
	275						280					285			
Thr	Leu	Thr	Thr	Pro	Thr	Gly	Asp	Ile	Asp	Val	Leu	Leu	Pro	Leu	Pro
	290					295					300				
Gly	Arg	His	Asn	Ile	Ala	Asn	Ala	Leu	Ala	Ala	Ala	Ala	Leu	Ser	Met
305					310				315						320
Ala	Val	Gly	Ala	Ser	His	Ala	Ala	Ile	Lys	Ala	Gly	Leu	Ala	Asn	Leu
			325					330						335	
Lys	Ala	Val	Pro	Gly	Arg	Leu	Phe	Pro	Ile	Gln	Leu	Ala	Glu	Asn	Lys
		340					345						350		
Leu	Leu	Leu	Asp	Asp	Ser	Tyr	Asn	Ala	Asn	Val	Gly	Ser	Met	Thr	Ala
		355					360					365			
Ala	Val	Gln	Val	Leu	Ser	Glu	Met	Pro	Gly	Tyr	Arg	Val	Met	Val	Val
	370					375					380				
Gly	Asp	Met	Ala	Glu	Leu	Gly	Asp	Glu	Ser	Glu	Ala	Cys	His	Val	Gln
385				390						395					400
Val	Gly	Glu	Ala	Ala	Lys	Ala	Ala	Gly	Leu	Asp	Arg	Val	Leu	Ser	Ala
			405					410						415	
Gly	Pro	Leu	Ser	Lys	Ala	Ile	Ser	Asp	Ala	Ser	Glu	Val	Gly	Glu	His
		420					425						430		
Phe	Ala	Asp	Lys	Ser	Ala	Leu	Ile	Glu	Arg	Leu	Lys	Ala	Leu	Ile	Thr
		435					440					445			
Glu	Lys	Gln	Ile	Val	Thr	Val	Leu	Val	Lys	Gly	Ser	Arg	Ser	Ala	Ala

450		455		460
Met Glu Glu Val Val	His Ala Leu Gln Glu	Asn Gly Thr Cys		
465	470	475		

<210> 9438

<211> 426

<212> PRT

<213> Enterobacter cloacae

<400> 9438

Cys	Leu	Tyr	Pro	Pro	Gly	Glu	Gly	Val	Arg	Leu	Met	Arg	Leu	Ser	Leu
1			5					10						15	
Pro	Arg	Leu	Lys	Met	Pro	Arg	Leu	Pro	Gly	Phe	Gly	Ile	Leu	Val	Trp
		20					25						30		
Leu	Phe	Thr	Ala	Leu	Lys	Gly	Trp	Val	Met	Ala	Ser	Arg	Asp	Lys	Asp
		35					40					45			
Ser	Asp	Ser	Leu	Ile	Met	Tyr	Asp	Arg	Thr	Leu	Phe	Trp	Leu	Thr	Leu
	50					55					60				
Gly	Leu	Ala	Ala	Ile	Gly	Phe	Ile	Met	Val	Thr	Ser	Ala	Ser	Met	Pro
65					70					75					80
Val	Gly	Gln	Arg	Leu	Ala	Asn	Asp	Pro	Phe	Leu	Phe	Ala	Lys	Arg	Asp
			85						90					95	
Gly	Leu	Tyr	Ile	Ile	Leu	Ala	Phe	Cys	Leu	Ala	Leu	Ile	Thr	Leu	Arg
		100						105					110		
Leu	Pro	Met	Ser	Phe	Trp	Gln	Arg	His	Ser	Thr	Ala	Met	Leu	Ile	Ala
		115					120					125			
Ser	Ile	Ile	Met	Leu	Leu	Ile	Val	Leu	Val	Val	Gly	Ser	Ser	Val	Asn
	130					135					140				
Gly	Ala	Ser	Arg	Trp	Ile	Ala	Phe	Gly	Pro	Leu	Arg	Ile	Gln	Pro	Ala
145					150					155					160
Glu	Phe	Thr	Lys	Leu	Ser	Leu	Phe	Cys	Tyr	Leu	Ala	Asn	Tyr	Leu	Val
			165						170					175	
Arg	Lys	Val	Asp	Glu	Val	Arg	Asn	Asn	Leu	Arg	Gly	Phe	Leu	Lys	Pro
			180					185					190		
Met	Gly	Val	Ile	Leu	Val	Leu	Ala	Ile	Leu	Leu	Leu	Ala	Gln	Pro	Asp
		195					200					205			
Leu	Gly	Thr	Val	Val	Val	Leu	Phe	Val	Thr	Thr	Leu	Ala	Met	Leu	Phe
	210					215					220				
Leu	Ala	Gly	Ala	Lys	Leu	Trp	Gln	Phe	Ile	Ala	Ile	Ile	Gly	Met	Gly
225					230					235					240
Ile	Ser	Ala	Val	Val	Leu	Leu	Ile	Leu	Ala	Glu	Pro	Tyr	Arg	Ile	Arg
			245						250					255	
Arg	Val	Thr	Ser	Phe	Trp	Asn	Pro	Trp	Glu	Asp	Pro	Phe	Gly	Ser	Gly
			260					265					270		
Tyr	Gln	Leu	Thr	Gln	Ser	Leu	Met	Ala	Phe	Gly	Arg	Gly	Glu	Val	Trp
		275					280					285			
Gly	Gln	Gly	Leu	Gly	Asn	Ser	Val	Gln	Lys	Leu	Glu	Tyr	Leu	Pro	Glu
	290				295						300				
Ala	His	Thr	Asp	Phe	Ile	Phe	Ser	Ile	Ile	Gly	Glu	Glu	Leu	Gly	Tyr
305					310					315					320
Ile	Gly	Val	Val	Leu	Ala	Leu	Leu	Met	Val	Phe	Phe	Val	Ala	Phe	Arg
			325						330					335	
Ala	Met	Ser	Ile	Gly	Arg	Lys	Ala	Leu	Glu	Ile	Asp	His	Arg	Phe	Ser
			340					345					350		
Gly	Phe	Leu	Ala	Cys	Ser	Ile	Gly	Ile	Trp	Phe	Ser	Phe	Gln	Ala	Leu
		355					360					365			
Val	Asn	Val	Gly	Ala	Ala	Ala	Gly	Met	Leu	Pro	Thr	Lys	Gly	Leu	Thr
	370					375					380				
Leu	Pro	Leu	Ile	Ser	Tyr	Gly	Gly	Ser	Ser	Leu	Leu	Ile	Met	Ser	Thr
385					390					395					400
Ala	Ile	Met	Phe	Leu	Leu	Arg	Ile	Asp	Tyr	Glu	Thr	Arg	Leu	Glu	Lys

Ala Gln Ala Phe Thr Arg Gly Ser Arg
 420 405 410 415
 425

<210> 9439
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 9439
 Leu Tyr Val Phe Trp Thr Arg Arg Ala Asp Met Ser Gln Ala Ala Leu
 1 5 10 15
 Asn Thr Arg Asn Arg Asp Asp Glu Glu Tyr Ser Ser Ser Arg Arg
 20 25 30
 Ser Asn Gly Thr Arg Leu Ala Gly Ile Ile Phe Leu Leu Gly Val Leu
 35 40 45
 Cys Thr Val Phe Ile Ser Gly Trp Met Val Leu Gly Trp Met Glu Asp
 50 55 60
 Ala Gln Arg Leu Pro Leu Ser Lys Leu Val Val Thr Gly Glu Arg His
 65 70 75 80
 Tyr Thr Arg Asn Asp Asp Ile Arg Gln Ser Ile Leu Ala Leu Gly Ser
 85 90 95
 Pro Gly Thr Phe Met Thr Gln Asp Val Asn Ile Ile Gln Ser Gln Ile
 100 105 110
 Glu Arg Leu Pro Trp Ile Lys Gln Ala Ser Val Arg Lys Gln Trp Pro
 115 120 125
 Asp Glu Leu Lys Ile His Leu Val Glu Tyr Val Pro Ile Ala Arg Trp
 130 135 140
 Asn Asp Gln His Met Val Asp Val Asp Gly Asn Ser Phe Ser Val Pro
 145 150 155 160
 Ser Asp Arg Val Asn Lys Gln Asn Leu Pro Met Leu Tyr Gly Pro Ala
 165 170 175
 Val Ile Glu Asn Arg Arg Ile Pro Gly Phe Ser
 180 185

<210> 9440
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 9440
 Ile Ile Phe Phe Glu Val Ile Thr Val Pro Trp Gln Arg Glu Phe Ser
 1 5 10 15
 Val Thr Val Glu Ser Glu Met Pro Glu Asn Asn Ile Asn Gln Pro Gln
 20 25 30
 Thr Tyr Asp Gly Val Lys Pro Gln Leu Arg Thr Val Asp Leu Asn Leu
 35 40 45
 Leu Thr Val Phe Asp Ala Val Met Gln Glu Gln Asn Ile Thr Arg Ala
 50 55 60
 Ala Gln Ser Leu Gly Met Ser Gln Pro Ala Val Ser Asn Ala Val Ala
 65 70 75 80
 Arg Leu Lys Val Met Phe Asn Asp Glu Leu Phe Val Arg Tyr Gly Arg
 85 90 95
 Gly Ile Gln Pro Thr Ala Arg Ala Phe Gln Leu Phe Gly Ser Ile Arg
 100 105 110
 Gln Ala Leu Gln Leu Val Gln Asn Glu Leu Pro Gly Ser Gly Phe Glu
 115 120 125
 Pro Leu Ser Ser Glu Arg Val Phe His Leu Cys Val Cys Ser Pro Leu
 130 135 140
 Asp Asn Tyr Leu Thr Ser Val Ile Tyr Asn Lys Val Glu Gln Ile Ala
 145 150 155 160

Pro Asn Ile His Leu Val Phe Lys Ser Ser Leu Asn Gln Asn Thr Glu
 165 170 175
 His Gln Leu Arg Tyr Gln Glu Thr Glu Phe Val Leu Gly Tyr Glu Glu
 180 185 190
 Phe Arg Arg Pro Glu Phe Ala Cys Val Pro Leu Phe Lys Asp Glu Met
 195 200 205
 Val Leu Val Ala Ser Lys Lys His Pro Arg Met Asn Ser Pro Leu Arg
 210 215 220
 Glu Ser Asp Val Tyr Ser Glu Gln His Ala Val Val Ala Leu Asp Arg
 225 230 235 240
 Tyr Ala Ser Phe Ser Leu Pro Trp Tyr Asp Thr Ala Asp Lys Gln Ala
 245 250 255
 Ser Val Ala Tyr Gln Gly Met Ala Met Val Ser Val Leu Asn Val Val
 260 265 270
 Ser Gln Thr Gln Leu Val Ala Ile Ala Pro Arg Trp Leu Ala Glu Glu
 275 280 285
 Phe Ser Asp Ser Leu Ser Leu Gln Ile Leu Pro Leu Pro Leu Lys Leu
 290 295 300
 Asn Ser Arg Thr Cys Tyr Leu Ser Trp His Glu Ala Ala Gly Arg Asp
 305 310 315 320
 Lys Gly His Gln Trp Met Glu Glu Leu Leu Val Asn Ile Cys Arg Arg
 325 330 335

<210> 9441

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9441

Phe Arg Asn Ile Ile Gly Thr Ala Ala Gly Leu Val Ser Ile Asn Met
 1 5 10 15
 Met Glu Asn Tyr Lys His Thr Thr Val Leu Leu Asp Glu Ala Val Asn
 20 25 30
 Gly Leu Asn Ile Arg Pro Asp Gly Ile Tyr Ile Asp Gly Thr Phe Gly
 35 40 45
 Arg Gly Gly His Ser Arg Leu Ile Leu Ser Gln Leu Gly Ala Glu Gly
 50 55 60
 Arg Leu Leu Ala Ile Asp Arg Asp Pro Gln Ala Ile Ala Val Ala Gln
 65 70 75 80
 Thr Ile Asp Asp Pro Arg Phe Ser Ile Val His Gly Pro Phe Ser Ala
 85 90 95
 Leu Ala Asp Tyr Val Ala Glu Arg Gly Leu Thr Gly Lys Ile Asp Gly
 100 105 110
 Ile Leu Leu Asp Leu Gly Val Ser Ser Pro Gln Leu Asp Asp Ala Glu
 115 120 125
 Arg Gly Phe Ser Phe Met Arg Asp Gly Pro Leu Asp Met Arg Met Asp
 130 135 140
 Pro Thr Arg Gly Gln Ser Ala Ala Glu Trp Leu Gln Thr Ala Asp Glu
 145 150 155 160
 Ala Asp Ile Ala Trp Val Ile Lys Thr Phe Gly Glu Glu Arg Phe Gly
 165 170 175
 Lys Arg Ile Ala Arg Ala Ile Val Glu Arg Asn Arg Val Glu Pro Met
 180 185 190
 Thr Arg Thr Lys Glu Leu Ala Glu Val Ile Ala Ala Ala Thr Pro Val
 195 200 205
 Lys Asp Lys His Lys His Pro Ala Thr Arg Thr Phe Gln Ala Val Arg
 210 215 220
 Ile Trp Val Asn Ser Glu Leu Glu Glu Ile Glu Leu Ala Leu Lys Ser
 225 230 235 240

Ser Leu Asp Val Leu Ala Pro Gly Gly Arg Leu Ser Ile Ile Ser Phe
 245 250 255
 His Ser Leu Glu Asp Arg Ile Val Lys Arg Phe Met Arg Glu Gln Ser
 260 265 270
 Arg Gly Pro Gln Val Pro Ala Gly Leu Pro Met Thr Glu Gln Leu
 275 280 285
 Arg Lys Leu Gly Gly Arg Gln Leu Arg Ala Leu Gly Lys Leu Met Pro
 290 295 300
 Gly Glu Glu Glu Val Ala Glu Asn Pro Arg Ala Arg Ser Ser Val Leu
 305 310 315 320
 Arg Ile Ala Glu Arg Thr Asn Ala
 325

<210> 9442

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9442

Leu Ile Lys Ala Arg Glu Gln Val Ala Asp Arg Asn Leu Arg Asp Leu
 1 5 10 15
 Leu Ala Pro Trp Val Pro Met Leu Pro Ala Arg Ala Leu Arg Glu Met
 20 25 30
 Val Leu Asp Ser Arg Val Ala Ala Ser Gly Asp Leu Phe Val Ala Val
 35 40 45
 Val Gly His Gln Ala Asp Gly Arg Arg Tyr Ile Pro Gln Ala Ile Ala
 50 55 60
 Gln Gly Val Ala Ala Ile Ile Ala Glu Ala Lys Asp Glu Ala Thr Asp
 65 70 75 80
 Gly Glu Ile Arg Glu Met His Gly Val Pro Val Ile Tyr Leu Ser Gln
 85 90 95
 Leu Asn Glu Arg Leu Ser Ala Leu Ala Gly Arg Phe Tyr Asn Glu Pro
 100 105 110
 Ser Asp Gln Leu Gln Leu Val Gly Val Thr Gly Thr Asn Gly Lys Thr
 115 120 125
 Thr Thr Thr Gln Leu Met Ala Gln Trp Ala Gln Leu Leu Gly Glu Thr
 130 135 140
 Gly Ala Val Met Gly Thr Val Gly Asn Gly Leu Leu Gly Lys Val Ser
 145 150 155 160
 Pro Thr Glu Asn Thr Thr Gly Ser Ala Val Asp Val Gln Arg Val Leu
 165 170 175
 Ala Gly Leu Ala Glu Gln Gly Ala Thr Phe Ala Ala Met Glu Val Ser
 180 185 190
 Ser His Gly Leu Val Gln His Arg Val Ala Ala Leu Lys Phe Ala Ala
 195 200 205
 Ser Val Phe Thr Asn Leu Ser Arg Asp His Leu Asp Tyr His Gly Asp
 210 215 220
 Met Glu His Tyr Glu Ala Lys Trp Leu Leu Tyr Ser Thr His His
 225 230 235 240
 His Gly Gln Ala Ile Ile Asn Ala Asp Asp Glu Val Gly Arg Arg Trp
 245 250 255
 Leu Glu Lys Leu Pro Asp Ala Val Ala Val Ser Met Glu Asp Arg Ile
 260 265 270
 Asn Pro Asn Cys Arg Gly Arg Trp Leu Lys Ala Val Glu Val Asn Tyr
 275 280 285
 His Asp Ser Gly Ala Thr Ile Arg Phe Ala Ser Ile Trp Gly Glu Gly
 290 295 300
 Glu Ile Glu Ser Arg Leu Met Gly Ala Phe Asn Val Ser Asn Leu Leu
 305 310 315 320
 Leu Ala Leu Ala Thr Leu Leu Ala Leu Gly Tyr Pro Met Ala Asp Leu
 325 330 335

Ala Asp Asp Arg Cys Ile Ser Phe Gly Ile Asn Met Gly Asp Tyr His
 260 265 270
 Leu Asn Arg Gln Gln Gly Glu Thr Trp Leu Arg Val Lys Gly Glu Lys
 275 280 285
 Val Leu Asn Val Lys Glu Met Met Leu Ser Gly Gln His Asn Tyr Thr
 290 295 300
 Asn Ala Leu Ala Ala Leu Ala Leu Ala Asp Ala Val Gly Leu Pro Arg
 305 310 315 320
 Ser Ser Ser Leu Lys Ala Leu Thr Thr Phe Thr Gly Leu Ala His Arg
 325 330 335
 Phe Gln Leu Ala Leu Glu His Asn Gly Val Arg Trp Ile Asn Asp Ser
 340 345 350
 Lys Ala Thr Asn Val Gly Ser Thr Glu Ala Ala Leu Asn Gly Leu His
 355 360 365
 Val Asp Gly Thr Leu His Leu Leu Gly Gly Asp Gly Lys Ser Ala
 370 375 380
 Asp Phe Ser Ser Leu Lys Gln Tyr Leu Asn Gly Asp Asn Val Arg Leu
 385 390 395 400
 Tyr Cys Phe Gly Arg Asp Gly Ser Glu Leu Ala Ala Leu Arg Pro Glu
 405 410 415
 Val Ala Glu Gln Thr Glu Thr Met Glu Gln Ala Met Arg Leu Ile Ala
 420 425 430
 Pro Arg Val Lys Pro Gly Asp Met Val Leu Leu Ser Pro Ala Cys Ala
 435 440 445
 Ser Leu Asp Gln Phe Lys Asn Phe Glu Gln Arg Gly Asp Val Phe Thr
 450 455 460
 Arg Leu Ala Lys Glu Leu Gly
 465 470

<210> 9444

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9444

Arg Met Asn Thr Gln Gln Leu Ala Lys Leu Arg Ser Ile Val Pro Glu
 1 5 10 15
 Met Arg Arg Val Arg His Ile His Phe Val Gly Ile Gly Gly Ala Gly
 20 25 30
 Met Gly Gly Ile Ala Glu Val Leu Ala Asn Glu Gly Tyr Gln Ile Ser
 35 40 45
 Gly Ser Asp Leu Ala Pro Asn Pro Val Thr Gln Gln Leu Ala Ser Leu
 50 55 60
 Gly Ala Thr Ile Tyr Phe Asn His Arg Pro Glu Asn Val Ser Asp Ala
 65 70 75 80
 Ser Val Val Val Val Ser Ser Ala Ile Ser Ala Asp Asn Pro Glu Ile
 85 90 95
 Val Ala Ala His Glu Ala Arg Ile Pro Val Ile Arg Arg Ala Glu Met
 100 105 110
 Leu Ala Glu Leu Met Arg Phe Arg His Gly Ile Ala Val Ala Gly Thr
 115 120 125
 His Gly Lys Thr Thr Thr Thr Ala Met Val Ser Ser Ile Tyr Ala Glu
 130 135 140
 Ala Gly Leu Asp Pro Thr Phe Val Asn Gly Gly Leu Val Lys Ala Ala
 145 150 155 160
 Gly Val His Ala Arg Leu Gly His Ser Arg Tyr Leu Ile Ala Glu Ala
 165 170 175
 Asp Glu Ser Asp Ala Ser Phe Leu His Leu Gln Pro Met Val Ala Ile
 180 185 190
 Val Thr Asn Ile Glu Ala Asp His Met Asp Thr Tyr Gln Gly Asp Phe
 195 200 205

Glu Asn Leu Lys Gln Thr Phe Ile Asn Phe Leu His Asn Leu Pro Phe
 210 215 220
 Tyr Gly Arg Ala Val Met Cys Val Asp Asp Pro Val Ile Arg Glu Leu
 225 230 235 240
 Leu Pro Arg Val Gly Arg Gln Ile Thr Thr Tyr Gly Phe Ser Glu Asp
 245 250 255
 Ala Asp Val Arg Val Glu Asp Tyr Lys Gln Ile Gly Ala Gln Gly His
 260 265 270
 Phe Thr Leu Ala Arg Gln Asp Lys Asp Leu Leu His Val Thr Leu Asn
 275 280 285
 Ala Pro Gly Arg His Asn Ala Leu Asn Ala Ala Ala Val Ala Val
 290 295 300
 Ala Thr Glu Glu Gly Ile Asp Asp Glu Ala Ile Leu Arg Ala Leu Glu
 305 310 315 320
 Ser Phe Gln Gly Thr Gly Arg Arg Phe Asp Phe Leu Gly Glu Phe Pro
 325 330 335
 Leu Glu Pro Val Asn Gly Lys Pro Gly Ser Ala Met Leu Val Asp Asp
 340 345 350
 Tyr Gly His His Pro Thr Glu Val Asp Ala Thr Ile Lys Ala Ala Arg
 355 360 365
 Ala Gly Trp Pro Glu Lys Asn Leu Val Met Ile Phe Gln Pro His Arg
 370 375 380
 Tyr Thr Arg Thr Arg Asp Leu Tyr Asp Asp Phe Ala Asn Val Leu Ser
 385 390 395 400
 Gln Val Asp Thr Leu Leu Met Leu Asp Val Tyr Ala Ala Gly Glu Thr
 405 410 415
 Pro Ile Pro Gly Ala Asp Ser Arg Ser Leu Cys Arg Thr Ile Arg Gly
 420 425 430
 Arg Gly Lys Val Asp Pro Ile Leu Val Pro Asp Pro Ala Gln Val Ala
 435 440 445
 Glu Met Leu Ala Pro Val Leu Thr Gly Asn Asp Leu Ile Leu Ile Gln
 450 455 460
 Gly Ala Gly Asn Ile Gly Lys Ile Ala Arg Thr Leu Ala Glu Ile Lys
 465 470 475 480
 Leu Lys Pro Gln Thr Gln Glu Asp Glu Arg His Gly
 485 490

<210> 9445

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 9445

Thr Leu Leu Leu Leu Leu Ile Arg Pro Cys Trp Arg Arg Asn Gln Gly
 1 5 10 15
 Glu Arg Leu Lys His Gly Gly Arg Lys Arg Gly Val Met Leu Phe Gly
 20 25 30
 Ser Phe Arg Gly Pro Phe Leu Tyr Cys Phe Tyr Arg Tyr Gly Gln Leu
 35 40 45
 Val Ser Phe Arg Thr Leu Gly Arg Thr Glu Ser Met Ala Glu Pro Gln
 50 55 60
 Asn Asp Pro Leu Leu Pro Gly Tyr Ser Phe Asn Ala His Leu Val Ala
 65 70 75 80
 Gly Leu Thr Pro Ile Glu Ala Glu Gly Tyr Leu Asp Phe Tyr Val Asp
 85 90 95
 Arg Pro Leu Gly Met Lys Gly Tyr Ile Leu Asn Leu Thr Val Arg Gly
 100 105 110
 Glu Gly Val Val Lys Asn Gly Asp Gln Gln Phe Ile Cys Arg Pro Gly
 115 120 125
 Asp Met Leu Leu Phe Pro Pro Gly Glu Ile His His Tyr Gly Arg His
 130 135 140

Pro Asp Ala Lys Glu Trp Tyr His Gln Trp Val Tyr Phe Arg Pro Arg
 145 150 155 160
 Ala Tyr Trp Gln Glu Trp Leu Ser Trp Pro Ala Ile Phe Ala His Thr
 165 170 175
 Gly Leu Tyr Arg Pro Asp Glu Ala His Leu Ala Gln Phe Arg Glu Leu
 180 185 190
 Phe Ala Gln Ile Ile Glu Ala Gly Gln Ala Gly Gly Arg Tyr Ala Glu
 195 200 205
 Leu Leu Ala Ile Asn Leu Leu Glu Gln Val Leu Leu Arg Arg Met Glu
 210 215 220
 Ala Ile Asn Glu Ser Leu Asn Pro Pro Leu Asp Asn Arg Val Arg Asp
 225 230 235 240
 Ala Cys Gln Tyr Ile Ser Asp His Leu Ala Asp Ser Gln Phe Asp Ile
 245 250 255
 Ala Ser Val Ala Gln His Val Cys Leu Ser Pro Ser Arg Leu Ser His
 260 265 270
 Leu Phe Arg Gln Gln Leu Gly Val Ser Val Leu Ser Trp Arg Glu Asp
 275 280 285
 Gln Arg Ile Ser Gln Ala Lys Leu Leu Leu Ser Thr Thr Arg Met Pro
 290 295 300
 Ile Ala Thr Val Gly Arg Asn Val Gly Phe Glu Asp Gln Leu Tyr Phe
 305 310 315 320
 Ser Arg Val Phe Lys Lys Cys Thr Gly Ala Ser Pro Ser Glu Phe Arg
 325 330 335
 Ala Gly Cys Glu
 340

<210> 9446

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 9446

Pro Ser Ile Thr Lys Ala Trp Arg Gln Ser Met Glu Met Leu Ser Gly
 1 5 10 15
 Ala Glu Met Val Val Arg Ser Leu Ile Asp Gln Gly Val Lys Gln Val
 20 25 30
 Phe Gly Tyr Pro Gly Gly Ala Val Leu Asp Ile Tyr Asp Ala Leu His
 35 40 45
 Thr Val Gly Gly Ile Asp His Val Leu Val Arg His Glu Gln Ala Ala
 50 55 60
 Val His Met Ala Asp Gly Leu Ala Arg Ala Thr Gly Glu Val Gly Val
 65 70 75 80
 Val Leu Val Thr Ser Gly Pro Gly Ala Thr Asn Ala Ile Thr Gly Ile
 85 90 95
 Ala Thr Ala Tyr Met Asp Ser Ile Pro Leu Val Ile Leu Ser Gly Gln
 100 105 110
 Val Ala Thr Ser Leu Ile Gly Tyr Asp Ala Phe Gln Glu Cys Asp Met
 115 120 125
 Val Gly Ile Ser Arg Pro Val Lys His Ser Phe Leu Val Lys Gln
 130 135 140
 Thr Glu Asp Ile Pro Gly Val Leu Lys Lys Ala Phe Trp Leu Ala Ala
 145 150 155 160
 Ser Gly Arg Pro Gly Pro Val Val Val Asp Leu Pro Lys Asp Ile Leu
 165 170 175
 Asn Pro Ala Asn Lys Leu Pro Tyr Leu Trp Pro Glu Ser Val Ser Met
 180 185 190
 Arg Ser Tyr Asn Pro Thr Thr Gln Gly His Lys Gly Gln Ile Lys Arg
 195 200 205
 Ala Leu Gln Thr Leu Leu Ala Ala Lys Lys Pro Val Val Tyr Val Gly
 210 215 220

Gly Gly Ala Val Asn Ala Ala Cys Glu Thr Gln Leu Arg Glu Leu Ile
 225 230 235 240
 Glu Lys Leu Asn Leu Pro Val Ala Ser Ser Leu Met Gly Leu Gly Ala
 245 250 255
 Phe Pro Ala Thr His Arg Gln Ala Leu Gly Met Leu Gly Met His Gly
 260 265 270
 Thr Tyr Glu Ala Asn Met Thr Met His His Ser Asp Val Ile Phe Ala
 275 280 285
 Val Gly Val Arg Phe Asp Asp Arg Thr Thr Asn Asn Leu Ala Lys Tyr
 290 295 300
 Cys Pro His Ala Thr Val Leu His Ile Asp Ile Asp Pro Thr Ser Ile
 305 310 315 320
 Ser Lys Thr Val Pro Ala Asp Val Pro Ile Val Gly Asp Ala Arg Gln
 325 330 335
 Val Leu Asp Gln Met Leu Asp Leu Leu Ala Gln Glu Thr Ala Ser Gln
 340 345 350
 Pro Leu Asp Glu Ile Arg Asp Trp Trp Gln Gln Ile Glu Gln Trp Arg
 355 360 365
 Gly Arg Gln Cys Leu Lys Tyr Asp Thr Gln Ser Glu Asn Ile Lys Pro
 370 375 380
 Gln Ala Val Ile Glu Thr Ile Trp Arg Leu Thr Asn Gly Asp Ala Tyr
 385 390 395 400
 Val Thr Ser Asp Val Gly Gln His Gln Met Phe Ala Ala Leu Tyr Tyr
 405 410 415
 Pro Phe Asp Lys Pro Arg Arg Trp Ile Asn Ser Gly Gly Leu Gly Thr
 420 425 430
 Met Gly Phe Gly Leu Pro Ala Ala Leu Gly Val Lys Leu Ala Leu Pro
 435 440 445
 Asn Glu Thr Val Ile Cys Val Thr Gly Asp Gly Ser Ile Gln Met Asn
 450 455 460
 Ile Gln Glu Leu Ser Thr Ala Leu Gln Tyr Glu Leu Pro Val Leu Val
 465 470 475 480
 Leu Asn Leu Asn Asn Gly Tyr Leu Gly Met Val Lys Gln Trp Gln Asp
 485 490 495
 Met Ile Tyr Ser Gly Arg His Ser Gln Ser Tyr Met Lys Ser Leu Pro
 500 505 510
 Asp Phe Val Arg Leu Ala Glu Ala Tyr Gly His Ile Gly Met Arg Val
 515 520 525
 Thr Asp Pro Ser Glu Leu Glu Ala Lys Leu Gly Glu Ala Leu Glu His
 530 535 540
 Val Lys Asn Asn Arg Leu Val Phe Met Asp Val Ile Val Asp Gly Thr
 545 550 555 560
 Glu His Val Tyr Pro Met His Ile Arg Gly Gly Gly Met Asp Glu Met
 565 570 575
 Trp Leu Ser Lys Thr Glu Arg Thr
 580 585

<210> 9447

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9447

Gly Ala Ile Val Lys Leu Asp Glu Ile Ala Arg Leu Ala Gly Val Ser
 1 5 10 15
 Arg Thr Thr Ala Ser Tyr Val Ile Asn Gly Lys Ala Lys Gln Tyr Arg
 20 25 30
 Val Ser Asp Lys Thr Val Glu Lys Val Met Ala Val Val Arg Glu His
 35 40 45
 Asn Tyr His Pro Asn Ala Val Ala Ala Gly Leu Arg Ala Gly Arg Thr
 50 55 60

Arg	Ser	Ile	Gly	Leu	Val	Ile	Pro	Asp	Leu	Glu	Asn	Thr	Ser	Tyr	Thr
65					70					75					80
Arg	Ile	Ala	Asn	Tyr	Leu	Glu	Arg	Gln	Ala	Arg	Gln	Arg	Gly	Tyr	Gln
			85						90					95	
Leu	Leu	Ile	Ala	Cys	Ser	Glu	Asp	Gln	Pro	Asp	Asn	Glu	Met	Arg	Cys
			100					105					110		
Ile	Glu	His	Leu	Leu	Gln	Arg	Gln	Val	Asp	Ala	Ile	Ile	Val	Ser	Thr
		115					120					125			
Ser	Leu	Pro	Pro	Glu	His	Pro	Phe	Tyr	Gln	Arg	Trp	Ala	Asn	Asp	Pro
	130					135					140				
Phe	Pro	Ile	Val	Ala	Leu	Asp	Arg	Ala	Leu	Asp	Arg	Glu	His	Phe	Thr
145				150						155					160
Ser	Val	Val	Gly	Ala	Asp	Gln	Asp	Asp	Ala	Glu	Met	Leu	Ala	Ala	Glu
			165						170					175	
Leu	Arg	Thr	Phe	Pro	Ala	Glu	Thr	Val	Leu	Tyr	Leu	Gly	Ala	Leu	Pro
			180					185					190		
Glu	Leu	Ser	Val	Ser	Phe	Leu	Arg	Glu	Gln	Gly	Phe	Arg	Thr	Ala	Trp
		195					200					205			
Lys	Asp	Asp	Pro	Arg	Asp	Val	His	Tyr	Leu	Tyr	Ala	Asn	Ser	Tyr	Glu
	210					215					220				
Arg	Glu	Ala	Ala	Ala	Gln	Leu	Phe	Glu	Lys	Trp	Leu	Glu	Thr	His	Pro
225					230					235					240
Met	Pro	Gln	Ala	Leu	Phe	Thr	Thr	Ser	Phe	Ala	Leu	Leu	Gln	Gly	Val
			245						250					255	
Met	Asp	Val	Thr	Leu	Arg	Arg	Asp	Gly	Lys	Leu	Pro	Ser	Asp	Leu	Ala
		260						265					270		
Ile	Ala	Thr	Phe	Gly	Asp	Asn	Glu	Leu	Leu	Asp	Phe	Leu	Gln	Cys	Pro
		275					280					285			
Val	Leu	Ala	Val	Ala	Gln	Arg	His	Arg	Asp	Val	Ala	Glu	Arg	Val	Leu
	290					295					300				
Glu	Ile	Val	Leu	Ala	Ser	Leu	Asp	Glu	Pro	Arg	Lys	Pro	Lys	Pro	Gly
305					310					315					320
Leu	Thr	Arg	Ile	Lys	Arg	Asn	Leu	Tyr	Arg	Arg	Gly	Ile	Leu	Ser	Arg
			325						330					335	

His

<210> 9448

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9448

Thr	Pro	Ser	Gly	Gly	Asn	Leu	Trp	Val	Lys	Val	Val	Arg	Arg	Gly	Glu
1				5					10					15	
Thr	Gly	Met	Phe	Arg	Gly	Ala	Thr	Leu	Val	Asn	Leu	Asp	Ser	Lys	Gly
			20					25					30		
Arg	Leu	Ser	Val	Pro	Thr	Arg	Tyr	Arg	Asp	Gln	Leu	Ile	Glu	Asn	Ala
		35					40					45			
Ser	Gly	Gln	Leu	Val	Cys	Thr	Ile	Asp	Ile	Asn	Ser	Pro	Cys	Leu	Leu
	50					55				60					
Leu	Tyr	Pro	Leu	Pro	Glu	Trp	Glu	Ile	Ile	Glu	Gln	Lys	Leu	Ser	Arg
65					70					75					80
Leu	Ser	Ser	Met	Asn	Pro	Gln	Glu	Arg	Arg	Val	Gln	Arg	Leu	Leu	Leu
				85					90					95	
Gly	His	Ala	Ser	Glu	Cys	Gln	Met	Asp	Ser	Ala	Gly	Arg	Leu	Leu	Ile
		100						105					110		
Ala	Pro	Val	Leu	Arg	Gln	His	Ala	Gly	Leu	Thr	Lys	Glu	Val	Met	Leu
		115					120					125			
Val	Gly	Gln	Phe	Asn	Lys	Phe	Glu	Leu	Trp	Asp	Glu	Thr	Thr	Trp	Tyr
	130					135					140				

Gln Gln Val Lys Glu Asp Ile Asp Ala Glu Gln Ser Asp Ser Glu Thr
 145 150 155 160
 Leu Ser Glu Arg Leu Arg Asp Leu Ser Leu
 165 170

<210> 9449

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 9449

Cys Arg His Gly Arg Gly Cys Ala Arg Ile Thr Gly Glu Arg Asp Met
 1 5 10 15
 Leu Val Trp Leu Ala Glu His Leu Val Lys Tyr Tyr Ser Gly Phe Asn
 20 25 30
 Val Phe Ser Tyr Leu Thr Phe Arg Ala Ile Val Ser Leu Leu Thr Ala
 35 40 45
 Leu Phe Ile Ser Leu Trp Met Gly Pro Arg Met Ile Ala Arg Leu Gln
 50 55 60
 Lys Leu Ser Phe Gly Gln Val Val Arg Asn Asp Gly Pro Glu Ser His
 65 70 75 80
 Phe Ser Lys Arg Gly Thr Pro Thr Met Gly Gly Ile Met Ile Leu Thr
 85 90 95
 Ala Ile Val Val Ser Val Leu Leu Trp Ala Tyr Pro Ser Asn Pro Tyr
 100 105 110
 Val Trp Cys Val Leu Thr Val Leu Val Gly Tyr Gly Ile Ile Gly Phe
 115 120 125
 Val Asp Asp Tyr Arg Lys Val Val Arg Lys Asp Thr Lys Gly Leu Ile
 130 135 140
 Ala Arg Trp Lys Tyr Phe Trp Met Ser Val Ile Ala Leu Gly Val Ala
 145 150 155 160
 Phe Ala Leu Tyr Leu Ala Gly Lys Asp Thr Pro Ala Thr Glu Leu Val
 165 170 175
 Val Pro Phe Phe Lys Asp Val Met Pro Gln Leu Gly Leu Phe Tyr Ile
 180 185 190
 Leu Leu Ala Tyr Phe Val Ile Val Gly Thr Gly Asn Ala Val Asn Leu
 195 200 205
 Thr Asp Gly Leu Asp Gly Leu Ala Ile Met Pro Thr Val Phe Val Ala
 210 215 220
 Gly Gly Phe Ala Leu Val Ala Trp Ala Thr Gly Asn Met Asn Phe Ala
 225 230 235 240
 Asn Tyr Leu His Ile Pro Tyr Leu Arg His Ala Gly Glu Leu Val Ile
 245 250 255
 Val Cys Thr Ala Ile Val Gly Ala Gly Leu Gly Phe Leu Trp Phe Asn
 260 265 270
 Thr Tyr Pro Ala Gln Val Phe Met Gly Asp Val Gly Ser Leu Ala Leu
 275 280 285
 Gly Gly Ala Leu Gly Ile Ile Ala Val Leu Leu Arg Gln Glu Phe Leu
 290 295 300
 Leu Val Ile Met Gly Gly Val Phe Val Val Glu Thr Leu Ser Val Ile
 305 310 315 320
 Leu Gln Val Gly Ser Phe Lys Leu Arg Gly Gln Arg Ile Phe Arg Met
 325 330 335
 Ala Pro Ile His His His Tyr Glu Leu Lys Gly Trp Pro Glu Pro Arg
 340 345 350
 Val Ile Val Arg Phe Trp Ile Ile Ser Leu Met Leu Val Leu Ile Gly
 355 360 365
 Leu Ala Thr Leu Lys Val Arg
 370 375

<210> 9450

<211> 369
 <212> PRT
 <213> Enterobacter cloacae

<400> 9450

Asn	Ala	Ser	Gly	Glu	Ser	Ser	Gly	Val	Tyr	Thr	Arg	Phe	Thr	Met	Asn
1				5					10					15	
Gln	Pro	Lys	Arg	Leu	Met	Val	Met	Ala	Gly	Gly	Thr	Gly	Gly	His	Val
			20					25					30		
Phe	Pro	Gly	Leu	Ala	Val	Ala	His	His	Leu	Met	Glu	Gln	Gly	Trp	Gln
		35					40					45			
Val	Arg	Trp	Leu	Gly	Thr	Ala	Asp	Arg	Met	Glu	Ala	Asp	Leu	Val	Pro
	50					55				60					
Lys	His	Gly	Ile	Glu	Ile	Asp	Phe	Ile	Arg	Ile	Ser	Gly	Leu	Arg	Gly
65					70				75					80	
Lys	Gly	Ile	Lys	Ala	Leu	Leu	Leu	Ala	Pro	Val	Arg	Ile	Phe	Asn	Ala
			85					90					95		
Trp	Arg	Gln	Ala	Arg	Ala	Ile	Met	Lys	Arg	Phe	Lys	Pro	Asp	Val	Val
		100					105					110			
Leu	Gly	Met	Gly	Gly	Tyr	Val	Ser	Gly	Pro	Gly	Gly	Leu	Ala	Ala	Trp
	115						120					125			
Ser	Leu	Gly	Ile	Pro	Val	Val	Leu	His	Glu	Gln	Asn	Gly	Ile	Ala	Gly
	130				135					140					
Leu	Thr	Asn	Lys	Trp	Leu	Ala	Lys	Ile	Ala	Thr	Lys	Val	Met	Gln	Ala
145					150					155				160	
Phe	Pro	Gly	Ala	Phe	Pro	Lys	Ala	Asp	Val	Val	Gly	Asn	Pro	Val	Arg
			165					170					175		
Val	Asp	Val	Leu	Ala	Leu	Ala	Leu	Pro	Asp	Thr	Arg	Leu	Ala	Gly	Arg
		180					185					190			
Glu	Gly	Pro	Val	Arg	Val	Leu	Val	Val	Gly	Gly	Ser	Gln	Gly	Ala	Arg
	195						200					205			
Ile	Leu	Asn	Gln	Thr	Met	Pro	Gln	Val	Ala	Ala	Lys	Leu	Gly	Asp	Ala
	210				215						220				
Val	Thr	Ile	Trp	His	Gln	Ser	Gly	Lys	Gly	Ala	Gln	Gln	Thr	Val	Glu
225					230					235				240	
Gln	Ala	Tyr	Ala	Gln	Glu	Gly	Gln	Pro	Gln	His	Lys	Val	Thr	Glu	Phe
			245					250						255	
Ile	Asp	Asp	Met	Ala	Ala	Ala	Tyr	Ala	Trp	Ala	Asp	Val	Val	Val	Cys
		260					265					270			
Arg	Ser	Gly	Ala	Leu	Thr	Val	Ser	Glu	Ile	Ala	Ala	Ala	Gly	Leu	Pro
		275				280						285			
Ala	Leu	Phe	Val	Pro	Phe	Gln	His	Lys	Asp	Arg	Gln	Gln	Tyr	Trp	Asn
	290					295					300				
Ala	Leu	Pro	Leu	Glu	Lys	Ala	Gly	Ala	Ala	Lys	Ile	Phe	Glu	Gln	Pro
305					310					315				320	
Gln	Phe	Thr	Ala	Asp	Ala	Val	Ala	Thr	Thr	Leu	Ala	Gly	Trp	Asn	Arg
			325					330						335	
Asp	Val	Leu	Leu	Glu	Met	Ala	Gln	Arg	Ala	Arg	Ala	Thr	Ala	Ile	Pro
		340					345					350			
Asp	Ala	Thr	Glu	Arg	Val	Ala	Lys	Glu	Val	Ser	Leu	Ala	Ala	Gln	Ala
	355						360					365			

<210> 9451
 <211> 316
 <212> PRT
 <213> Enterobacter cloacae

<400> 9451

Ser Arg Lys Leu Arg Arg Thr Ser Val Met Ala Asp Lys Ile Ala Val

1				5					10				15				
Leu	Phe	Gly	Gly	Thr	Ser	Ala	Glu	Arg	Glu	Val	Ser	Leu	Asn	Ser	Gly		
			20					25					30				
Ala	Ala	Val	Leu	Ala	Gly	Leu	Arg	Glu	Gly	Gly	Val	Asp	Ala	His	Pro		
		35					40					45					
Val	Asp	Pro	Lys	Glu	Val	Asp	Val	Thr	Gln	Leu	Lys	Ala	Met	Gly	Phe		
	50					55					60						
Asp	Lys	Ala	Phe	Ile	Ala	Leu	His	Gly	Arg	Gly	Gly	Glu	Asp	Gly	Thr		
65				70					75					80			
Leu	Gln	Gly	Leu	Leu	Glu	Leu	Ile	Gly	Ile	Pro	Tyr	Thr	Gly	Ser	Gly		
			85					90						95			
Val	Met	Ala	Ser	Ala	Ile	Ser	Met	Asp	Lys	Leu	Arg	Ser	Lys	Leu	Leu		
			100					105					110				
Trp	Gln	Gly	Ala	Gly	Leu	Pro	Val	Ala	Pro	Trp	Val	Ala	Leu	Thr	Arg		
		115					120					125					
Arg	Glu	Tyr	Glu	Leu	Gly	Leu	Ser	Asp	Ser	Val	Asn	Thr	Arg	Ile	Ala		
	130					135					140						
Ala	Leu	Gly	Leu	Pro	Val	Ile	Val	Lys	Pro	Ser	Arg	Glu	Gly	Ser	Ser		
145				150					155					160			
Val	Gly	Met	Ser	Lys	Val	Asp	Lys	Ala	Val	Asp	Leu	Ala	Asp	Ala	Leu		
			165					170					175				
Ala	Leu	Ala	Phe	Gln	His	Asp	Glu	Glu	Val	Leu	Ile	Glu	Lys	Trp	Leu		
			180					185					190				
Ser	Gly	Pro	Glu	Phe	Thr	Val	Ala	Met	Leu	Gly	Glu	Glu	Ile	Leu	Pro		
		195					200					205					
Ser	Ile	Arg	Ile	Gln	Pro	Ala	Gly	Val	Phe	Tyr	Asp	Tyr	Glu	Ala	Lys		
	210					215					220						
Tyr	Leu	Ser	Asp	Glu	Thr	Gln	Tyr	Phe	Cys	Pro	Ala	Gly	Leu	Glu	Ala		
225				230					235					240			
Glu	Arg	Glu	Ala	Glu	Leu	Gln	Ser	Leu	Val	Leu	Lys	Ala	Trp	Asn	Val		
			245					250						255			
Leu	Gly	Cys	Arg	Gly	Trp	Gly	Arg	Ile	Asp	Val	Met	Leu	Asp	Gly	Asp		
			260					265					270				
Gly	Gln	Phe	Tyr	Leu	Leu	Glu	Ala	Asn	Thr	Ser	Pro	Gly	Met	Thr	Ser		
		275					280					285					
His	Ser	Leu	Val	Pro	Met	Ala	Ala	Arg	Gln	Ala	Gly	Met	Ser	Phe	Ser		
	290					295					300						
Gln	Leu	Val	Val	Arg	Ile	Leu	Asp	Gln	Ala	Gly							
305					310					315							

<210> 9452

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9452

Phe	Ile	Asp	Thr	Pro	Pro	Ala	Gly	Ala	Ile	Leu	Ala	Ala	Lys	Leu	Leu		
1				5				10					15				
Pro	Glu	Thr	Gly	Gly	Asp	Thr	Leu	Trp	Ala	Ser	Gly	Ile	Ala	Ala	Phe		
			20					25					30				
Glu	Ala	Leu	Ser	Ala	Pro	Leu	Gln	Thr	Leu	Leu	Ser	Gly	Gln	Arg	Ala		
	35						40					45					
Glu	Gln	Asp	Phe	Lys	Lys	Ser	Phe	Gln	Glu	Asn	Lys	Asn	Arg	Lys	Thr		
	50					55					60						
Glu	Glu	Glu	His	Gln	Arg	Arg	Gln	Glu	Ala	Val	Glu	Lys	His	Pro	Thr		
65				70					75					80			
Thr	Ser	Gln	Gln	His	Pro	Glu	Glu	Arg	Thr	His	Pro	Glu	Thr	Gly	Lys		
			85					90						95			
Gln	Ala	Gln	Lys	Glu	Lys	Glu	Gly	Lys	Thr	Thr	Arg	Ile	Glu	Asp	Glu		
			100					105					110				
Ala	Glu	Lys	Glu	Ser	Glu	Ala	Gln	Leu	Gly	Asn	Gln	Lys	Ala	Gln	Ile		

	115		120		125
Thr	Lys	Pro	Glu	Asn	Gln
	130		135		140
Ala	Ile	Arg	Asp	Asn	Arg
145			150		155

<210> 9453

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 9453

Pro	Ser	Asp	Arg	Leu	Val	Lys	Thr	Ile	Val	Gln	Ala	Thr	Gly	Val	Gly
1				5					10					15	
Leu	His	Thr	Gly	Lys	Lys	Val	Thr	Leu	Thr	Leu	Arg	Pro	Ala	Pro	Ala
			20					25					30		
Asn	Thr	Gly	Val	Ile	Tyr	Arg	Arg	Thr	Asp	Leu	Asn	Pro	Pro	Val	Asp
		35					40					45			
Phe	Pro	Ala	Asp	Ala	Lys	Ser	Val	Arg	Asp	Thr	Met	Leu	Cys	Thr	Cys
	50					55					60				
Leu	Val	Asn	Glu	His	Asp	Val	Arg	Ile	Ser	Thr	Val	Glu	His	Leu	Asn
65					70					75					80
Ala	Ala	Leu	Ala	Gly	Leu	Gly	Ile	Asp	Asn	Ile	Met	Val	Glu	Val	Asp
				85					90					95	
Ala	Pro	Glu	Ile	Pro	Ile	Met	Asp	Gly	Ser	Ala	Ala	Pro	Phe	Val	Tyr
		100						105						110	
Leu	Leu	Leu	Asp	Ala	Gly	Ile	Glu	Glu	Leu	Asn	Cys	Ala	Lys	Lys	Phe
		115					120					125			
Val	Arg	Ile	Lys	Glu	Thr	Val	Arg	Val	Glu	Asp	Gly	Asp	Lys	Trp	Ala
	130					135					140				
Glu	Phe	Lys	Pro	Tyr	Asn	Gly	Phe	Ser	Leu	Asp	Phe	Thr	Ile	Asp	Phe
145					150					155					160
Asn	His	Pro	Ala	Ile	Asp	Ser	Ser	Thr	Gln	Arg	Tyr	Ala	Met	Asn	Phe
			165						170					175	
Ser	Ala	Asp	Ala	Phe	Met	Arg	Gln	Ile	Ser	Arg	Ala	Arg	Thr	Phe	Gly
		180					185						190		
Phe	Met	Arg	Asp	Ile	Glu	Tyr	Leu	Gln	Ser	Arg	Gly	Leu	Cys	Leu	Gly
	195						200					205			
Gly	Ser	Phe	Asp	Cys	Ala	Ile	Val	Val	Asp	Asp	Tyr	Arg	Val	Leu	Asn
	210					215					220				
Glu	Asp	Gly	Leu	Arg	Phe	Glu	Asn	Glu	Phe	Val	Arg	His	Lys	Met	Leu
225					230					235					240
Asp	Ala	Ile													

<210> 9454

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 9454

His	Glu	Val	Ala	Leu	Ile	Tyr	Pro	Gly	Asp	Pro	Met	Ala	Ile	Lys	Leu
1				5					10					15	
Ile	Ala	Ile	Asp	Met	Asp	Gly	Thr	Leu	Leu	Leu	Pro	Asp	His	Thr	Ile
			20					25					30		
Ser	Pro	Ala	Val	Lys	Asn	Ala	Ile	Ala	Ala	Ala	Arg	Glu	Lys	Gly	Val
		35					40					45			
Asn	Val	Val	Leu	Thr	Thr	Gly	Arg	Pro	Tyr	Ala	Gly	Val	His	Ser	Tyr
	50					55					60				
Leu	Lys	Glu	Leu	His	Met	Asn	Gln	Pro	Gly	Asp	Tyr	Cys	Ile	Thr	Tyr
65					70					75					80

Asn Gly Ala Leu Val Gln Lys Ala Ala Asp Gly Ser Thr Val Ala Gln
 85 90 95
 Thr Ala Leu Ser Tyr Asp Asp Tyr Arg Phe Leu Glu Lys Leu Ser Arg
 100 105 110
 Asp Val Gly Ser His Phe His Ala Leu Asp Arg Asn Thr Leu Tyr Thr
 115 120 125
 Ala Asn Arg Asp Ile Ser Tyr Tyr Thr Val His Glu Ser Tyr Val Ala
 130 135 140
 Thr Ile Pro Leu Val Phe Cys Glu Ala Glu Lys Met Asp Pro Ala Thr
 145 150 155 160
 Gln Phe Leu Lys Val Met Met Ile Asp Glu Pro Ala Val Leu Asp Lys
 165 170 175
 Ala Ile Ser Arg Ile Pro Ala Glu Val Lys Glu Lys Tyr Thr Val Leu
 180 185 190
 Lys Ser Ala Pro Tyr Phe Leu Glu Ile Leu Asp Lys Arg Val Asn Lys
 195 200 205
 Gly Thr Gly Val Lys Ser Leu Ala Asp Ala Leu Gly Ile Lys Pro Glu
 210 215 220
 Glu Ile Met Ala Leu Gly Asp Gln Glu Asn Asp Ile Ala Met Ile Glu
 225 230 235 240
 Tyr Ala Gly Met Gly Val Ala Met Asp Asn Ala Ile Pro Ser Val Lys
 245 250 255
 Glu Val Ala Asn Phe Val Thr Lys Ser Asn Leu Glu Asp Gly Val Ala
 260 265 270
 Trp Ala Ile Glu Lys Phe Val Leu Ser
 275 280

<210> 9455

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9455

Ser Ala Val Arg Cys Asp Thr Ala Ser Gly Arg Arg Cys Gly Arg Ala
 1 5 10 15
 Gly Gly Ala Asp His Asp Arg Gln Leu Asp Thr Lys Val Glu Gly Asn
 20 25 30
 His Met Thr Ser Arg Tyr Ile Ala Ile Asp Trp Gly Ser Thr Asn Leu
 35 40 45
 Arg Ala Trp Leu Tyr Gln Gly Glu Gln Cys Leu Glu Ser Arg Gln Ser
 50 55 60
 Glu Ala Gly Val Thr Arg Leu Asn Gly Lys Ser Pro Ala Ala Val Leu
 65 70 75 80
 Ala Glu Val Thr Gln Asn Trp Arg Asp Gly Thr Thr Pro Val Val Met
 85 90 95
 Ala Gly Met Val Gly Ser Asn Val Gly Trp Lys Val Ala Pro Tyr Leu
 100 105 110
 Ser Val Pro Val His Phe Thr Ala Val Gly Glu Gln Leu Thr Ser Val
 115 120 125
 Gly Asp Asn Val Trp Ile Ile Pro Gly Leu Cys Val Ser Arg Asp Asp
 130 135 140
 Asn His Asn Val Met Arg Gly Glu Glu Thr Gln Leu Leu Gly Ala Arg
 145 150 155 160
 Thr Leu Ser Pro Ser Ser Val Tyr Val Met Pro Gly Thr His Cys Lys
 165 170 175
 Trp Val Gln Ala Asp Ala Glu Gln Ile His Asp Phe Arg Thr Val Met
 180 185 190
 Thr Gly Glu Leu His His Leu Leu Lys His Ser Leu Val Gly Thr
 195 200 205
 Gly Leu Pro Glu Gln Thr Pro Ser Pro Glu Ala Phe Ala Ala Gly Leu
 210 215 220

Glu Arg Gly Ile Ala Ser Pro Ala Val Leu Pro Gln Leu Phe Glu Val
 225 230 235 240
 Arg Ala Ser His Val Leu Gly Asn Leu Pro Arg Glu Gln Val Ser Glu
 245 250 255
 Phe Leu Ser Gly Leu Leu Ile Gly Ala Glu Val Ala Thr Leu Ser Asp
 260 265 270
 Ala Phe Ala Gly Gln Gln Ala Ile Thr Leu Val Ala Gly Ser Ser Leu
 275 280 285
 Thr Ser Arg Tyr Arg Gln Ala Phe His Ala Ile Gly Arg Asp Val Ala
 290 295 300
 Ala Val Glu Gly Asp Thr Ala Phe Gln Ala Gly Ile Arg Ser Ile Ala
 305 310 315 320
 His Ala Val Ala Asn
 325

<210> 9456

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 9456

Thr Gly Glu Asp Gly Leu Gln Ala Tyr Arg His Thr Glu Tyr Glu Pro
 1 5 10 15
 Arg Gly Asp Pro Pro Gly Gly Gly Val Arg His Asp Arg Leu Pro Gly
 20 25 30
 Leu Arg His Gly Tyr Arg Ser Leu Cys Arg Pro Arg Cys Arg Arg Thr
 35 40 45
 Val Ser Gln Asn Phe Pro Val Val Gly Leu Trp Ser Gly Leu His Gln
 50 55 60
 Ser Ala Glu Ser Gly Leu Thr Arg Gln Arg Ala Gly Leu Cys Arg Gly
 65 70 75 80
 Arg Arg His Ala Gly Lys Pro Gly Ala Val Asp Lys Ser Gly Leu Cys
 85 90 95
 Gly Arg Arg Ala Gly Gln Arg Ser Leu Ser Cys Arg Thr Ala Arg
 100 105 110

<210> 9457

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 9457

Ala Tyr Arg Thr Ala Gly Gly Ser Ile Cys Glu Ser Val Ser Arg Gly
 1 5 10 15
 Ser Ala Met Lys Ile Thr Lys Leu Thr Thr Tyr Arg Leu Pro Pro Arg
 20 25 30
 Trp Met Phe Leu Lys Ile Glu Thr Asp Glu Gly Val Val Gly Trp Gly
 35 40 45
 Glu Pro Val Ile Glu Gly Arg Ala Arg Thr Val Glu Ala Ala Val His
 50 55 60
 Glu Leu Gly Glu Tyr Leu Ile Gly Gln Asp Pro Ala Arg Ile Asn Asp
 65 70 75 80
 Leu Trp Gln Val Met Tyr Arg Ala Gly Phe Tyr Arg Gly Gly Pro Ile
 85 90 95
 Leu Met Ser Ala Ile Ala Gly Ile Asp Gln Ala Leu Trp Asp Ile Lys
 100 105 110
 Gly Lys Val Leu Asn Ala Pro Val Trp Gln Leu Met Gly Gly Leu Val
 115 120 125
 Arg Asp Lys Ile Lys Ala Tyr Ser Trp Val Gly Gly Asp Arg Pro Ala
 130 135 140
 Glu Val Ile Asp Gly Ile Arg Gln Leu Arg Asn Ile Gly Phe Asp Thr

145					150					155					160
Phe	Lys	Leu	Asn	Gly	Cys	Glu	Glu	Met	Gly	Val	Ile	Asp	Asn	Ser	Arg
				165					170					175	
Ala	Val	Asp	Arg	Ala	Val	Asn	Thr	Val	Ala	Gln	Ile	Arg	Glu	Ala	Phe
			180					185					190		
Gly	Asn	Glu	Ile	Glu	Phe	Gly	Leu	Asp	Phe	His	Gly	Arg	Val	Ser	Ala
		195					200					205			
Pro	Met	Ala	Lys	Val	Leu	Ile	Lys	Glu	Leu	Glu	Pro	Tyr	Arg	Pro	Leu
	210					215					220				
Phe	Ile	Glu	Glu	Pro	Val	Leu	Ala	Glu	Gln	Ala	Glu	Tyr	Tyr	Pro	Lys
225					230					235					240
Leu	Ala	Glu	Gln	Thr	His	Ile	Pro	Ile	Ala	Ala	Gly	Glu	Arg	Met	Phe
			245						250					255	
Ser	Arg	Phe	Glu	Phe	Lys	Arg	Val	Leu	Glu	Ala	Gly	Gly	Ile	Ala	Ile
			260					265					270		
Leu	Gln	Pro	Asp	Leu	Ser	His	Ala	Gly	Gly	Ile	Thr	Glu	Cys	Tyr	Lys
	275						280					285			
Ile	Ala	Gly	Met	Ala	Glu	Ala	Tyr	Asp	Val	Ala	Leu	Ala	Pro	His	Cys
	290					295					300				
Pro	Leu	Gly	Pro	Ile	Ala	Leu	Ala	Ala	Cys	Leu	His	Val	Asp	Phe	Val
305					310					315					320
Ser	Arg	Asn	Ala	Val	Phe	Gln	Glu	Gln	Ser	Met	Gly	Ile	His	Tyr	Asn
				325					330					335	
Lys	Gly	Ala	Glu	Leu	Leu	Asp	Phe	Val	Lys	Asn	Lys	Glu	Asp	Phe	Ser
			340				345						350		
Met	Glu	Gly	Gly	Phe	Phe	Lys	Pro	Leu	Thr	Lys	Pro	Gly	Leu	Gly	Val
	355						360					365			
Glu	Ile	Asp	Glu	Ala	Lys	Val	Ile	Glu	Leu	Ser	Lys	Ser	Ala	Pro	Asp
	370					375					380				
Trp	Arg	Asn	Pro	Leu	Trp	Arg	His	Glu	Asp	Gly	Ser	Val	Ala	Glu	Trp
385					390					395					400

<210> 9458

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9458

Arg	Ile	Pro	Phe	Thr	Phe	Leu	Ile	Lys	Lys	Thr	Lys	Tyr	Thr	Leu	Cys
1				5					10					15	
Lys	Leu	Gln	Gly	Met	Val	Ser	Gly	Phe	Ala	Met	Pro	Lys	Ile	Trp	Arg
			20					25					30		
Gln	Ile	Ala	Met	Asp	Ile	Pro	Val	Thr	Ala	Ala	Lys	Thr	Gly	Arg	Arg
		35					40					45			
Arg	Tyr	Leu	Thr	Leu	Ile	Met	Ile	Phe	Ile	Thr	Val	Val	Ile	Cys	Tyr
	50				55						60				
Val	Asp	Arg	Ala	Asn	Leu	Ala	Val	Ala	Ser	Ala	His	Ile	Gln	Glu	Glu
65				70					75					80	
Phe	Gly	Ile	Thr	Lys	Ala	Glu	Met	Gly	Tyr	Val	Phe	Ser	Ala	Phe	Ala
				85				90						95	
Trp	Leu	Tyr	Thr	Leu	Cys	Gln	Ile	Pro	Gly	Gly	Trp	Phe	Leu	Asp	Arg
			100					105					110		
Val	Gly	Ser	Arg	Leu	Thr	Tyr	Phe	Ile	Ala	Ile	Phe	Gly	Trp	Ser	Val
	115						120					125			
Ala	Thr	Leu	Phe	Gln	Gly	Phe	Ala	Thr	Gly	Leu	Met	Ser	Leu	Ile	Gly
	130					135					140				
Leu	Arg	Ala	Ile	Thr	Gly	Val	Phe	Glu	Ala	Pro	Ala	Phe	Pro	Thr	Asn
145					150				155						160
Asn	Arg	Met	Val	Thr	Ser	Trp	Phe	Pro	Glu	His	Glu	Arg	Ala	Ser	Ala


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<210> 9459
<211> 427
<212> PRT
<213> Enterobacter cloacae
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Ser	Leu	Arg	Met	Phe	Tyr	Pro	Asp	Ala	Ile	Thr	Ala	His	Gln	Gly	Ile
1				5					10					15	
Phe	Met	Lys	Gln	Ile	Thr	Phe	Ala	Ser	Arg	Asn	His	Gln	Leu	Thr	Asn
		20					25					30			
Ile	Asn	Thr	Trp	Thr	Pro	Asp	Ser	Gln	Trp	Leu	Val	Tyr	Asp	Val	Arg
		35				40					45				
Pro	Ser	Gly	Ala	Ser	Phe	Thr	Gly	Glu	Thr	Ile	Glu	Arg	Val	Asn	Val
	50				55					60					
Ser	Thr	Gly	Glu	Val	Glu	Ala	Ile	Tyr	Arg	Ala	Thr	Asp	Gly	Ala	His
65				70					75					80	
Val	Gly	Val	Val	Thr	Val	His	Pro	Ala	Gln	Asp	Lys	Tyr	Val	Phe	Ile
				85				90						95	
His	Gly	Pro	Lys	Asn	Pro	Asp	Ala	Asp	Trp	Gln	Tyr	Asp	Phe	His	His
		100					105					110			
Arg	Gln	Gly	Val	Ile	Ala	His	Asn	Gly	Gln	Val	Ser	Asn	Leu	Asp	Ala

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<210> 9460
<211> 155
<212> PRT
<213> Enterobacter cloacae
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Thr	Val	Pro	Asn	Ser	Leu	Leu	Arg	Arg	Arg	Phe	Ser	Met	Arg	Asn	Tyr
1				5					10					15	
Asp	Phe	Ser	Pro	Leu	Leu	Arg	Gln	Trp	Ile	Gly	Phe	Asp	Lys	Leu	Ala
			20					25					30		
Asn	Ala	Leu	Gln	Ser	Ala	Thr	Glu	Gln	Gln	Thr	Phe	Pro	Tyr	Asn	
			35				40					45			
Ile	Glu	Lys	Ser	Asp	Asp	Asn	His	Tyr	Arg	Ile	Thr	Leu	Ala	Leu	Ala
	50					55					60				
Gly	Phe	Arg	Gln	Glu	Asp	Leu	Asp	Ile	Gln	Leu	Glu	Gly	Ala	Arg	Leu
65					70					75					80
Thr	Val	Lys	Gly	Ser	Pro	Glu	Lys	Pro	Asp	Thr	Glu	Thr	Lys	Trp	Leu
				85					90					95	
His	Gln	Gly	Leu	Val	Thr	Gln	Pro	Phe	Ser	Leu	Ser	Phe	Thr	Leu	Ala
			100					105					110		
Asp	His	Met	Glu	Val	Ser	Gly	Ala	Thr	Phe	Thr	Asn	Gly	Leu	Leu	Asn

	115		120		125										
Ile	Asp	Leu	Thr	Arg	Asn	Val	Pro	Glu	Ala	Ile	Ala	Pro	Gln	Arg	Ile
	130				135						140				
Ala	Ile	Ser	Glu	Arg	Pro	Ala	Leu	Asn	Ser						
145					150					155					

<210> 9461

<211> 617

<212> PRT

<213> Enterobacter cloacae

<400> 9461

Ser	Cys	Ala	Gly	Trp	Cys	Pro	His	Pro	Asp	Pro	Leu	Pro	Val	Gly	Glu
1			5					10					15		
Gly	Ala	Asn	Thr	Lys	Asn	Gly	His	Leu	Arg	Val	Thr	Val	Leu	Arg	Leu
		20					25					30			
Pro	Ser	Ala	Phe	Leu	Cys	Ala	Ile	Ala	His	Thr	Thr	Ala	Ala	Ser	Ser
		35				40					45				
Glu	Arg	Ile	Leu	Ile	Ile	Thr	Lys	Val	Ile	His	Arg	Met	Trp	Asn	Met
	50				55					60					
Ser	Asp	Ile	Ala	Leu	Thr	Val	Ser	Val	Leu	Ala	Leu	Val	Ala	Val	Val
65				70				75						80	
Gly	Leu	Trp	Leu	Gly	Asn	Ile	Lys	Ile	Arg	Gly	Val	Gly	Phe	Gly	Ile
			85					90					95		
Gly	Gly	Val	Leu	Phe	Gly	Gly	Ile	Phe	Val	Gly	His	Phe	Ala	Asp	Gln
		100					105					110			
Leu	Gly	Trp	Val	Leu	Ser	Ala	Asp	Met	Leu	His	Phe	Ile	Gln	Glu	Phe
	115					120					125				
Gly	Leu	Ile	Leu	Phe	Val	Tyr	Thr	Ile	Gly	Ile	Gln	Val	Gly	Pro	Gly
	130				135					140					
Phe	Phe	Ala	Ser	Leu	Arg	Ile	Ser	Gly	Leu	Arg	Leu	Asn	Leu	Phe	Ala
145				150					155					160	
Phe	Gly	Ile	Val	Val	Met	Gly	Gly	Leu	Val	Thr	Ala	Ile	Leu	His	Lys
			165				170							175	
Leu	Phe	Ala	Ile	Pro	Leu	Pro	Val	Val	Leu	Gly	Ile	Phe	Ser	Gly	Ala
	180					185						190			
Val	Thr	Asn	Thr	Pro	Ala	Leu	Gly	Ala	Gly	Gln	Gln	Ile	Leu	Arg	Asp
	195					200						205			
Leu	Gly	Ile	Pro	Ala	Asp	Val	Val	Asp	Gln	Met	Gly	Met	Ser	Tyr	Ala
	210				215					220					
Met	Ala	Tyr	Pro	Phe	Gly	Ile	Cys	Gly	Ile	Leu	Leu	Ser	Met	Trp	Leu
225				230					235					240	
Val	Arg	Val	Leu	Phe	Arg	Val	Asn	Val	Gly	Gln	Glu	Ala	Lys	Glu	His
			245					250						255	
Glu	Ser	Thr	Leu	Thr	Asn	Gly	His	Ala	Leu	Ile	Lys	Thr	Ile	Asn	Ile
	260					265							270		
Arg	Val	Glu	Asn	Pro	Asn	Leu	Asn	Asn	Met	Ala	Ile	Gln	Asp	Val	Pro
	275				280							285			
Ile	Leu	Asn	Ser	Ala	Thr	Ile	Ile	Cys	Ser	Arg	Leu	Lys	Arg	Asp	Asp
	290				295					300					
Thr	Leu	Met	Val	Pro	Ser	Pro	Asp	Thr	Leu	Ile	Gln	His	Gly	Asp	Leu
305				310					315					320	
Leu	His	Leu	Val	Gly	Gln	Pro	Ala	Asp	Leu	Asn	Asn	Ala	Arg	Leu	Val
			325					330						335	
Ile	Gly	Gln	Glu	Val	Asp	Thr	Ser	Leu	Ser	Thr	Arg	Gly	Thr	Asp	Met
	340					345						350			
Arg	Val	Glu	Arg	Val	Val	Val	Thr	Asn	Glu	Lys	Val	Leu	Gly	Lys	Lys
	355					360					365				
Ile	Arg	Asp	Leu	Gln	Val	Lys	Glu	Arg	Tyr	Asp	Val	Val	Ile	Ser	Arg
	370				375					380					
Leu	Asn	Arg	Ala	Gly	Val	Glu	Leu	Val	Ala	Ser	Gln	Asp	Ala	Ser	Leu

385					390					395				400	
Gln	Phe	Gly	Asp	Ile	Leu	Asn	Leu	Val	Gly	Arg	Pro	Ser	Ser	Ile	Asp
				405					410					415	
Ala	Val	Ala	Asp	Met	Val	Gly	Asn	Ala	Gln	Gln	Lys	Leu	Gln	Gln	Val
			420					425					430		
Gln	Met	Leu	Pro	Val	Phe	Ile	Gly	Val	Gly	Leu	Gly	Val	Met	Leu	Gly
		435					440					445			
Ser	Ile	Pro	Leu	Tyr	Val	Pro	Gly	Phe	Pro	Val	Ala	Leu	Lys	Leu	Gly
	450					455				460					
Leu	Ala	Gly	Gly	Pro	Leu	Ile	Met	Ala	Leu	Ile	Leu	Gly	Arg	Ile	Gly
465					470					475					480
Ser	Ile	Gly	Lys	Leu	Tyr	Trp	Phe	Met	Pro	Pro	Ser	Ala	Asn	Leu	Ala
				485					490					495	
Leu	Arg	Glu	Leu	Gly	Ile	Val	Leu	Phe	Leu	Ala	Val	Val	Gly	Leu	Lys
			500					505					510		
Ser	Gly	Gly	Asp	Phe	Val	Asp	Thr	Leu	Val	Asn	Gly	Glu	Gly	Met	Ser
		515					520					525			
Trp	Val	Gly	Tyr	Gly	Ile	Phe	Ile	Thr	Ala	Ile	Pro	Leu	Ile	Thr	Val
	530					535					540				
Gly	Leu	Leu	Ala	Arg	Met	Phe	Ala	Lys	Met	Asn	Tyr	Leu	Thr	Leu	Cys
545					550					555					560
Gly	Met	Leu	Ala	Gly	Ser	Met	Thr	Asp	Pro	Pro	Ala	Leu	Ala	Phe	Ala
				565					570					575	
Asn	Asn	Leu	His	Ala	Thr	Ser	Gly	Ala	Ala	Ala	Leu	Ser	Tyr	Ala	Thr
			580					585					590		
Val	Tyr	Pro	Leu	Val	Met	Phe	Leu	Arg	Ile	Ile	Thr	Pro	Gln	Leu	Leu
		595					600					605			
Ala	Val	Leu	Phe	Trp	Gly	Met	Gly								
	610					615									

<210> 9462

<211> 558

<212> PRT

<213> Enterobacter cloacae

<400> 9462

Lys	Thr	Ile	Lys	Ala	Ser	Ile	Pro	Tyr	Arg	Leu	Phe	His	Glu	Asp	Leu
1				5					10					15	
Lys	Met	Leu	Ser	Gln	Ile	Gln	Arg	Phe	Gly	Gly	Ala	Met	Phe	Thr	Pro
			20					25					30		
Val	Leu	Leu	Phe	Pro	Phe	Ala	Gly	Ile	Val	Val	Gly	Ile	Ala	Ile	Met
		35					40					45			
Leu	Arg	Asn	Pro	Leu	Phe	Val	Gly	Glu	Ala	Leu	Thr	Ala	Pro	Asp	Asn
	50					55					60				
Leu	Phe	Ala	Gln	Ile	Val	His	Ile	Ile	Glu	Glu	Gly	Gly	Trp	Ala	Val
65					70				75						80
Phe	Arg	Asn	Met	Pro	Leu	Ile	Phe	Ala	Val	Gly	Leu	Pro	Ile	Gly	Leu
			85						90					95	
Ala	Lys	Gln	Ala	Gln	Gly	Arg	Ala	Cys	Leu	Ala	Val	Leu	Ile	Ser	Phe
			100					105					110		
Leu	Thr	Trp	Asn	Tyr	Phe	Ile	Asn	Ala	Met	Gly	Met	Thr	Trp	Gly	His
		115					120					125			
Phe	Phe	Gly	Val	Asp	Phe	Ser	Ala	Glu	Pro	Thr	Ala	Gly	Ser	Gly	Leu
	130					135					140				
Ala	Met	Ile	Ala	Gly	Ile	Lys	Thr	Leu	Asp	Thr	Ser	Ile	Ile	Gly	Ala
145					150					155					160
Ile	Ile	Ile	Ser	Gly	Leu	Val	Thr	Ala	Ile	His	Asn	Arg	Phe	Phe	Asp
				165					170					175	
Lys	Pro	Leu	Pro	Val	Phe	Leu	Gly	Ile	Phe	Gln	Gly	Thr	Ser	Phe	Val
			180					185					190		
Val	Ile	Leu	Ala	Phe	Phe	Val	Met	Ile	Pro	Cys	Ala	Trp	Leu	Thr	Leu

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<210> 9463
<211> 237
<212> PRT
<213> Enterobacter cloacae
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Tyr	Val	Ser	Ser	Arg	Ser	Asp	Asn	Glu	Arg	Lys	Gln	Glu	Cys	Ala	Ala
1				5					10					15	
Lys	Cys	Lys	His	Arg	Gly	Asp	Lys	Arg	Arg	Arg	Arg	Ile	Val	Phe	Glu
			20					25					30		
Gly	Leu	Ile	Gln	Gly	Arg	Ala	Ala	Val	Leu	Leu	Asn	Gln	Pro	Glu	Glu
		35					40					45			
Arg	Ile	Gly	His	Asp	Arg	Ala	Ala	Asn	Ser	Ala	Gly	Pro	Asp	Gly	Asn
	50					55					60				
Gly	Asp	Asp	Leu	Arg	Ala	Tyr	Val	Arg	Val	Glu	Arg	Gln	His	Arg	Arg

65					70					75					80
His	Tyr	Arg	Arg	Gly	Thr	His	His	Arg	Tyr	Arg	Cys	Arg	Thr	His	Gly
				85					90					95	
Gly	Val	Gln	His	Gln	Cys	His	Gln	Pro	Gly	Glu	Lys	Asp	Arg	Val	His
			100					105					110		
Met	Gln	Val	Arg	Glu	Asn	Met	Arg	Gln	Arg	Leu	Arg	Gln	Thr	Thr	Gly
		115				120						125			
Phe	Lys	Asp	Gly	Val	Glu	Arg	Pro	Ala	Arg	Thr	Asp	Asn	Gln	Gln	Asn
	130					135					140				
Val	Gly	Asp	Arg	Ala	Lys	Ala	Val	Leu	Arg	Met	Gly	Gln	His	Cys	Ala
145					150					155					160
His	Ala	His	Val	Leu	Ala	Asp	Pro	Gln	Gln	Val	Ile	Gly	Asp	Lys	His
			165					170						175	
Gly	Asp	Lys	His	Arg	Gly	Asp	Gly	Val	Ala	Asp	Lys	Leu	Gln	Gln	Gly
		180					185					190			
Ile	Gln	Arg	Ala	Phe	Phe	Arg	His	Val	Gln	Leu	Gly	Asn	Gly	Phe	His
	195					200						205			
Gln	His	Gln	Gly	Asn	Arg	Gln	Gln	His	Gly	Glu	Gln	Arg	Gly	Ala	Gln
	210					215					220				
Arg	Arg	Gln	Ser	Val	Leu	Phe	Pro	His	Leu	Gln	Val				
225					230					235					

<210> 9464

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 9464

Thr	Gln	Lys	Leu	Arg	Val	Gly	Ile	Val	Met	Thr	Asp	Ala	Asn	Glu	Gly
1			5					10					15		
Arg	Asn	Arg	Leu	Asn	Gly	Trp	Gln	Leu	Ser	Lys	Met	Tyr	Thr	Phe	
			20				25					30			
Glu	Val	Ala	Ala	Arg	His	Glu	Ser	Phe	Ala	Leu	Ala	Ala	Ala	Glu	Leu
		35				40					45				
Ser	Leu	Ser	Pro	Ser	Ala	Val	Ser	His	Arg	Ile	Asn	Leu	Leu	Glu	Glu
	50					55					60				
Glu	Leu	Gly	Ile	Gln	Leu	Phe	Val	Arg	Ser	His	Arg	Lys	Val	Glu	Leu
65				70					75					80	
Thr	Gln	Glu	Gly	Lys	Arg	Val	Tyr	Trp	Thr	Leu	Lys	Ser	Ser	Leu	Asp
			85					90						95	
Thr	Leu	Asn	Gln	Glu	Ile	Leu	Asp	Ile	Lys	Asn	Gln	Ala	Leu	Ser	Gly
		100					105					110			
Thr	Leu	Thr	Val	Tyr	Ser	Arg	Pro	Ser	Ile	Ala	Gln	Cys	Trp	Leu	Val
	115					120						125			
Pro	Met	Leu	Gly	Asp	Phe	Thr	Arg	Arg	Tyr	Pro	Ser	Ile	Ser	Leu	Thr
	130					135					140				
Ile	Leu	Thr	Gly	Asn	Asp	Tyr	Val	Asn	Met	Gln	Arg	Thr	Gly	Ile	Asp
145				150					155						160
Leu	Ala	Leu	Tyr	Phe	Asp	Asp	Thr	Pro	Pro	Asn	His	Leu	Ser	His	His
			165					170						175	
Phe	Leu	Met	Asp	Glu	Glu	Ile	Leu	Pro	Val	Cys	Ser	Pro	Ala	Tyr	Ala
		180					185					190			
Arg	Glu	His	Glu	Leu	Leu	Lys	Asn	Pro	His	Asn	Leu	Ser	His	Cys	Thr
		195				200					205				
Leu	Leu	His	Asp	Arg	Gln	Ala	Trp	Ser	Asn	Asp	Ser	Gly	Thr	Asp	Glu
	210				215					220					
Trp	Leu	Ser	Trp	Ala	Gln	His	Phe	Ala	Val	Asn	Met	Pro	Leu	Ser	Ser
225				230					235						240
Gly	Ile	Gly	Phe	Asp	Arg	Ser	Asp	Leu	Ala	Ile	Ile	Ala	Ala	Met	Ser
			245					250						255	
Asn	Val	Gly	Val	Ala	Met	Gly	Arg	Lys	Arg	Leu	Val	Gln	Lys	Arg	Leu

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<210> 9465
<211> 372
<212> PRT
<213> Enterobacter cloacae
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<400>	9465														
Thr	Val	Leu	Lys	Pro	Phe	Ile	Ala	Thr	Ala	Ile	Leu	Leu	Ser	Ser	Gly
1			5						10					15	
Trp	Ala	Thr	Ala	Ala	Glu	Pro	Pro	Leu	Thr	Ala	Ala	Arg	Tyr	Ala	Gln
			20					25					30		
Met	Leu	Gly	Val	Gly	Met	Asp	Val	Asp	Trp	Ala	Arg	Thr	Glu	Arg	Gly
		35					40					45			
Ile	Arg	Glu	Phe	Asp	Pro	Leu	Val	Val	Arg	Asp	Phe	Gln	Ala	Lys	Gly
	50					55					60				
Ile	His	His	Val	Arg	Ile	Arg	Val	Ala	Gly	Glu	Pro	Thr	Glu	Ala	Arg
65					70					75					80
Leu	Ile	His	Leu	Arg	Lys	Leu	Val	Glu	Ala	Cys	Glu	Gln	Tyr	Gly	Val
				85					90					95	
Ile	Pro	Ile	Ile	Ala	Tyr	Gln	Ala	Asp	Glu	Tyr	Lys	Asn	Asp	Pro	Lys
			100					105					110		
Ala	Asp	Thr	Glu	Lys	Glu	Val	Ile	Asn	Trp	Trp	Ile	Ala	Val	Ala	His
		115					120					125			
Tyr	Phe	Gly	Gln	Arg	Ser	Pro	Leu	Leu	Gly	Phe	Asp	Leu	Ile	Tyr	Glu
	130					135					140				
Pro	Ala	Asp	Lys	Leu	Asn	His	Asn	Val	Ala	Ser	Leu	Asn	Arg	Val	Tyr
145					150					155				160	
Glu	Lys	Ala	Ile	Lys	Asp	Ile	His	Ala	Ile	Asp	Ala	Ser	Arg	Met	Ile
				165					170					175	
Phe	Ile	Ala	Pro	Arg	Leu	Arg	Ala	Ala	Pro	Glu	Asp	Leu	Ser	Thr	Leu
			180					185					190		
Lys	Leu	Pro	Ala	His	Ser	Gln	Asn	Tyr	Leu	Leu	Ala	Glu	Trp	His	Ile
		195					200					205			
Phe	Pro	Trp	Gly	Pro	Leu	Lys	Thr	Asn	Gly	Lys	Tyr	Pro	Trp	Thr	Ser
	210					215					220				
Gly	Thr	Ala	Ala	Glu	Lys	Ala	Ala	Ile	Arg	Asn	Arg	Ile	Asn	Ala	Ala
225					230					235					240
Leu	His	Trp	Gln	Gln	Lys	Thr	Gly	His	Val	Ser	Trp	Val	Gly	Gly	Trp
				245					250					255	
Gly	Val	Gly	Glu	Ser	Lys	Ser	Leu	Thr	Pro	Thr	Ala	Ser	Gln	Met	Ala
			260					265					270		
Phe	Ala	Thr	Phe	Met	Ala	Cys	Glu	Leu	Gln	His	Ala	Asn	Ile	Pro	Tyr
		275					280					285			
Ala	Ile	Asn	Ala	Asp	Val	Gln	Phe	Tyr	Asp	Gly	Glu	Glu	Gly	Ala	Trp
	290					295					300				
Arg	Pro	Ala	Pro	Glu	Arg	Leu	Leu	Gln	Ala	Met	Ile	Ala	Pro	Val	Cys
305					310					315					320
Glu	Lys	Pro	Gly	Glu	Lys	Pro	Gly	His	His	Ala	Val	Lys	Pro	Ala	Val
				325					330					335	
Arg	Asp	Ala	Arg	His	Ala	Thr	Pro	Ala	Ala	Ala	Ser	Thr	Ala	Lys	Ser
			340					345					350	</	

370

<210> 9466

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 9466

Gly	Glu	Arg	Met	Val	Trp	Ile	Met	Leu	Ala	Thr	Leu	Ala	Val	Val	Phe
1				5					10					15	
Val	Val	Gly	Phe	Arg	Val	Leu	Thr	Ser	Asp	Ser	Arg	Arg	Ala	Ile	Lys
		20						25					30		
Arg	Leu	Ser	Glu	Arg	Leu	Gly	Ile	Thr	Pro	Met	Pro	Val	Glu	Ser	Met
		35					40					45			
Ile	Asp	Gln	Phe	Gly	Lys	Thr	Pro	Gly	Asn	Glu	Phe	Ile	Arg	Tyr	Leu
	50					55					60				
Glu	Arg	Pro	Asp	Glu	Ala	His	Leu	Gln	Asn	Ala	Ala	Gln	Val	Leu	Leu
65					70					75					80
Ile	Trp	Gln	Val	Cys	Ile	Val	Asp	Gly	Ser	Glu	Glu	Asn	Leu	His	Thr
				85					90					95	
Trp	His	Arg	Met	Leu	Arg	Lys	Ala	Arg	Leu	Ala	Ala	Pro	Ile	Thr	Asp
			100					105					110		
Ala	Gln	Ile	Arg	Leu	Ala	Leu	Gly	Phe	Met	Arg	Glu	Ile	Glu	Pro	Asp
		115					120					125			
Pro	Gln	Glu	Leu	Asp	Ala	Phe	Gln	Leu	Arg	Tyr	Asn	Gln	Leu	Phe	Leu
		130				135					140				
Pro	Glu	Glu	Gly	Val	Phe	Tyr	Leu	His							
145						150									

<210> 9467

<211> 411

<212> PRT

<213> Enterobacter cloacae

<400> 9467

Thr	Ala	Arg	Leu	Phe	Arg	Thr	Phe	Leu	Ser	Ser	Gly	Asp	Ala	Met	Thr
1				5					10					15	
Glu	His	Ile	Gln	Pro	Thr	Thr	Arg	Pro	Gln	Thr	Lys	Glu	Val	Ser	Arg
			20					25					30		
Pro	Asn	Trp	Ser	Ala	Val	Phe	Ser	Val	Ala	Phe	Cys	Val	Ala	Cys	Leu
		35					40					45			
Ile	Thr	Val	Glu	Phe	Leu	Pro	Val	Ser	Leu	Leu	Thr	Pro	Met	Ala	Gln
	50					55					60				
Asp	Leu	Gly	Ile	Ser	Glu	Gly	Val	Ala	Gly	Gln	Ser	Val	Thr	Val	Thr
65					70					75					80
Ala	Phe	Val	Ala	Met	Phe	Ala	Ser	Leu	Phe	Ile	Thr	Gln	Ala	Ile	Gly
				85					90					95	
Thr	Ile	Asp	Arg	Arg	Lys	Val	Val	Ile	Leu	Phe	Ser	Val	Leu	Leu	Thr
			100					105					110		
Leu	Ser	Cys	Leu	Leu	Val	Ser	Phe	Ala	Glu	Ser	Phe	Thr	Leu	Leu	Leu
		115					120					125			
Leu	Gly	Arg	Ala	Cys	Leu	Gly	Leu	Gly	Leu	Gly	Gly	Phe	Trp	Ala	Met
		130				135					140				
Ser	Ala	Ser	Leu	Thr	Met	Arg	Leu	Val	Pro	Ala	Arg	Thr	Val	Pro	Lys
145					150					155					160
Ala	Leu	Ser	Val	Ile	Phe	Gly	Ala	Val	Ser	Ile	Ala	Leu	Val	Ile	Ala
				165					170					175	
Ala	Pro	Leu	Gly	Ser	Phe	Leu	Gly	Gly	Ile	Ile	Gly	Trp	Arg	Asn	Val
			180					185					190		
Phe	Asn	Ala	Ala	Ala	Val	Met	Gly	Val	Leu	Cys	Ile	Ile	Trp	Val	Trp
		195					200						205		

Lys Ala Leu Pro Ser Leu Pro Gly Glu Ala Ala His His Lys Gln Asn
 210 215 220
 Met Phe Ala Leu Leu Lys Arg Pro Gly Val Leu Ala Gly Met Thr Ala
 225 230 235 240
 Ile Phe Met Ala Phe Ala Gly Gln Phe Ala Phe Phe Thr Tyr Ile Arg
 245 250 255
 Pro Val Tyr Met Thr Met Ala Gly Phe Asp Val Asp Gly Leu Thr Leu
 260 265 270
 Val Leu Leu Ser Phe Gly Ile Ala Ser Phe Val Gly Thr Ser Leu Ser
 275 280 285
 Ser Gln Phe Leu Lys Arg Ser Leu Lys Val Ala Leu Ala Gly Ala Pro
 290 295 300
 Leu Val Leu Ala Ile Ser Ala Ala Val Leu Val Leu Trp Gly Ser Asp
 305 310 315 320
 Lys Trp Val Ala Ser Ala Ile Ala Ile Ile Trp Gly Phe Ala Phe Ala
 325 330 335
 Leu Val Pro Val Gly Trp Ser Thr Trp Ile Thr Arg Ser Leu Ala Asp
 340 345 350
 Gln Ala Glu Lys Ala Gly Ser Ile Gln Val Ala Val Ile Gln Leu Ala
 355 360 365
 Asn Thr Cys Gly Ala Ala Val Gly Gly Val Ala Leu Asp His Leu Gly
 370 375 380
 Leu Thr Ser Pro Leu Val Ile Ser Gly Thr Leu Met Leu Leu Thr Ala
 385 390 395 400
 Leu Leu Val Ala Gly Lys Val Lys Ala Lys
 405 410

<210> 9468

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9468

Arg Cys Arg Ile Thr Val Gly Cys Leu Cys Cys Tyr Ala Asn Glu Thr
 1 5 10 15
 Val Met Ser Leu Thr Arg Leu Leu Ile Arg Asp Phe Arg Asn Ile Glu
 20 25 30
 Ser Ala Asp Leu Ala Leu Ser Pro Gly Phe Asn Phe Leu Val Gly Ala
 35 40 45
 Asn Gly Ser Gly Lys Thr Ser Val Leu Glu Ala Ile Tyr Thr Leu Gly
 50 55 60
 His Gly Arg Ala Phe Arg Ser Leu Gln Ile Gly Arg Val Ile Arg His
 65 70 75 80
 Glu Gln Asp Ser Phe Val Leu His Gly Arg Leu Gln Gly Glu Glu Arg
 85 90 95
 Glu Thr Ala Ile Gly Leu Thr Lys Asp Lys Gln Gly Asp Ser Lys Val
 100 105 110
 Arg Ile Asp Gly Thr Asp Gly His Lys Val Ala Glu Leu Ala Leu Leu
 115 120 125
 Met Pro Met Gln Leu Ile Thr Pro Glu Gly Phe Thr Leu Leu Asn Gly
 130 135 140
 Gly Pro Lys Tyr Arg Arg Ala Phe Leu Asp Trp Gly Cys Phe His Asn
 145 150 155 160
 Glu Ala Gly Phe Phe Asn Ala Trp Ser Asn Leu Lys Arg Leu Leu Lys
 165 170 175
 Gln Arg Asn Ala Leu Arg Gln Val Thr Arg Tyr Ala Gln Leu Arg
 180 185 190
 Pro Trp Asp Met Glu Leu Ile Pro Leu Ala Glu Gln Ile Ser Arg Trp
 195 200 205
 Arg Ala Glu Tyr Ser Ala Gly Ile Ala Glu Asp Met Ala Asp Thr Cys
 210 215 220

Lys Gln Phe Leu Pro Glu Phe Ser Leu Thr Phe Ser Phe Gln Arg Gly
 225 230 235 240
 Trp Glu Lys Glu Thr Asp Tyr Ala Glu Val Leu Glu Arg Ser Phe Glu
 245 250 255
 Arg Asp Arg Met Leu Thr Tyr Thr Ala His Gly Pro His Lys Ala Asp
 260 265 270
 Phe Arg Ile Arg Ala Asp Gly Ala Pro Val Glu Asp Thr Leu Ser Arg
 275 280 285
 Gly Gln Leu Lys Leu Leu Met Cys Ala Leu Arg Leu Ala Gln Gly Glu
 290 295 300
 Phe Leu Thr Arg Glu Ser Gly Arg Arg Cys Leu Tyr Leu Ile Asp Asp
 305 310 315 320
 Phe Ala Ser Glu Leu Asp Asp Ala Arg Arg Gly Leu Leu Ala Ser Arg
 325 330 335
 Leu Lys Ala Thr Gln Ser Gln Val Phe Val Ser Ala Ile Ser Ala Glu
 340 345 350
 His Val Met Asp Met Ser Asp Glu Asn Ser Lys Met Phe Thr Val Glu
 355 360 365
 Lys Gly Lys Ile Thr Asp
 370 375

<210> 9469

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 9469

Gln Glu Lys Lys Met Thr Ala Thr Met Gln Arg Trp Ser Met Asp Ala
 1 5 10 15
 Leu Gly Arg Glu Ser Leu Arg Leu Val Gln Glu Pro Val Pro Gln Pro
 20 25 30
 Gly Ser Gly Glu Val Arg Val Arg Val Asn Ala Val Ala Leu Asn Tyr
 35 40 45
 Arg Asp Lys Met Val Ile Glu Gly Thr Met Pro Ile Pro Leu Ser Phe
 50 55 60
 Pro Phe Thr Pro Ala Ser Asp Met Ala Gly Val Val Asp Ser Ile Gly
 65 70 75 80
 Glu Gly Val Thr Arg Phe Lys Pro Gly Ala Arg Val Ile Ser Thr Phe
 85 90 95
 Phe Pro Glu Trp Ile Asp Gly Lys Pro Gln Ala Asp Ala Arg Asp Leu
 100 105 110
 Pro Tyr Lys Thr Ser Gly Gly Tyr Phe Gln Gly Met Leu Ala Glu Tyr
 115 120 125
 Val Ile Val Ser Glu Asn Ala Leu Val Ala Ser Pro Glu Ser Leu Asp
 130 135 140
 Asp Ala Glu Ala Ser Thr Leu Pro Cys Ala Gly Leu Thr Ala Trp Phe
 145 150 155 160
 Ala Leu Val Glu Arg Gly His Leu Arg Ala Gly Gln Ser Val Leu Val
 165 170 175
 Gln Gly Thr Gly Gly Val Ala Leu Phe Ala Leu Gln Ile Ala Lys Ala
 180 185 190
 His Gly Ala Glu Val Phe Val Ser Ser Gly Ser Asp Glu Lys Leu Ala
 195 200 205
 Arg Ala Lys Lys Leu Gly Ala Ser Gln Gly Ile Asn Arg Leu Lys Gly
 210 215 220
 Asp Trp Ala Glu Asn Thr Leu Ala Leu Thr Gln Asp Arg Gly Ile Asp
 225 230 235 240
 His Ile Ile Glu Thr Val Gly Gly Glu Asn Leu Arg His Ser Leu Arg
 245 250 255
 Ala Val Ala Val His Gly Arg Ile Ser Val Ile Gly Val Leu Ala Gly
 260 265 270

Thr Glu Ile Ser Leu Pro Ala Ser Glu Leu Leu Leu Lys Ser Pro Val
 275 280 285
 Ile Gln Gly Ile Gly Val Gly His Arg Arg Ala Leu Glu Asp Phe Val
 290 295 300
 Arg Ala Val Asp Val Thr Glu Leu Lys Pro Val Ile Glu His Arg Tyr
 305 310 315 320
 Arg Phe Asp Glu Leu Glu Gln Ala Leu Glu His Leu Asp Arg Gly Ala
 325 330 335
 Phe Gly Lys Ile Val Leu Thr Arg Glu
 340 345

<210> 9470

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9470

Trp Thr Tyr Arg Ala Gln Gly Leu Ser Met Thr Leu Asn Lys Thr Asp
 1 5 10 15
 Arg Ile Val Ile Thr Leu Gly Thr Gln Ile Val Gly Gly Lys Tyr Val
 20 25 30
 Pro Gly Ser Pro Leu Pro Ala Glu Ala Glu Leu Cys Glu Phe Glu
 35 40 45
 Thr Ser Arg Asn Ile Ile Arg Glu Val Phe Arg Ser Leu Met Ala Lys
 50 55 60
 Arg Leu Ile Glu Met Lys Arg Tyr Arg Gly Ala Phe Val Ala Pro Arg
 65 70 75 80
 Asn Gln Trp Asn Tyr Leu Asp Thr Asp Val Leu Gln Trp Val Leu Glu
 85 90 95
 Asn Asp Tyr Asp Pro Arg Leu Ile Gly Ala Met Ser Glu Val Arg Asn
 100 105 110
 Leu Val Glu Pro Ala Ile Ala Arg Trp Ala Ala Glu Arg Ala Thr Ser
 115 120 125
 Gly Asp Leu Ala Gln Ile Glu Ser Ala Leu Asn Asp Met Ile Ala Asn
 130 135 140
 Asn Gln Asn Arg Glu Ala Phe Asn Glu Ala Asp Ile Arg Tyr His Glu
 145 150 155 160
 Ala Val Leu Gln Ser Val His Asn Pro Val Leu Gln Gln Leu Ser Val
 165 170 175
 Ala Ile Ser Ser Leu Gln Arg Ala Val Phe Glu Arg Thr Trp Met Gly
 180 185 190
 Asp Glu Ala Asn Met Pro Lys Thr Leu Gln Glu His Lys Ala Leu Phe
 195 200 205
 Asp Ala Ile Arg His Gln Asp Gly Asp Ala Ala Glu Gln Ala Ala Leu
 210 215 220
 Thr Met Ile Ala Ser Ser Thr Arg Arg Leu Lys Glu Ile Thr
 225 230 235

<210> 9471

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9471

Gly Ala Ser Leu Met Gln Trp Gln Thr Glu Leu Pro Leu Ile Ala Ile
 1 5 10 15
 Leu Arg Gly Ile Thr Pro Gly Glu Ala Leu Ala His Val Gly Ala Val
 20 25 30
 Ile Asp Ala Gly Phe Asp Ala Val Glu Ile Pro Leu Asn Ser Pro Glu
 35 40 45
 Trp Glu Lys Ser Ile Pro Ala Ile Val Lys Ala Phe Gly Asp Lys Ala

50		55		60	
Leu	Ile	Gly	Ala	Gly	Thr
65				70	Val
Ala	Lys	Met	Gly	Cys	Lys
			85		Leu
Val	Ile	Arg	Arg	Ala	Val
			100		Glu
Ala	Thr	Ala	Thr	Glu	Ala
			115		Phe
Leu	Lys	Ile	Phe	Pro	Ser
			130		Ser
Leu	Lys	Ala	Val	Leu	Pro
145				150	Ala
Val	Thr	Pro	Glu	Asn	Leu
				165	Val
Ala	Gly	Leu	Gly	Ser	Asp
			180		Leu
Thr	Ala	Gln	Gln	Ala	Ala
			195		Ala
Gln					Phe
					200
					Val
					Lys
					Ala
					Tyr
					Arg
					Glu
					Ala
					Val
					205
					Pro
					Gln
					Ala
					Gly
					Cys
					Val
					Gly
					175
					Lys
					Ala
					Ile
					Tyr
					Asp
					Pro
					Gly
					110
					Cys
					Val
					Pro
					Met
					Asn
					Thr
					Pro
					Thr
					75
					Glu
					Pro
					Val
					Thr
					90
					Met
					Asn
					Pro
					Glu
					80
					Leu
					Glu
					Val
					Asp
					60
					Leu
					Val
					Thr
					10
					Met
					Phe
					Thr
					15
					Arg
					Ser
					Ile
					Asn
					10
					Thr
					Ala
					5
					His
					Leu
					Ser
					1

<210> 9472

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 9472

Ser	Leu	His	Ala	Ala	Arg	Gln	Gly	Thr	Phe	Met	Asn	Ile	Ser	Arg	Leu
1				5					10					15	
Gly	Glu	Ala	Pro	Asp	Tyr	Arg	Phe	Ser	Leu	Ala	Asn	Glu	Arg	Thr	Phe
			20					25					30		
Leu	Ala	Trp	Ile	Arg	Thr	Ala	Leu	Gly	Phe	Leu	Ala	Ala	Gly	Val	Gly
		35					40					45			
Leu	Asp	Gln	Leu	Ala	Pro	Asp	Phe	Ala	Thr	Pro	Leu	Ile	Arg	Glu	Val
	50					55					60				
Leu	Ala	Leu	Leu	Leu	Cys	Leu	Ile	Ala	Gly	Val	Leu	Ala	Ile	Tyr	Gly
65					70					75					80
Tyr	Leu	Arg	Trp	Leu	Arg	Asn	Glu	Lys	Ala	Met	Arg	Leu	Lys	Gln	Asp
			85						90					95	
Leu	Pro	Tyr	Thr	Arg	Gly	Leu	Leu	Ile	Ile	Ser	Thr	Ile	Leu	Leu	Met
			100					105					110		
Val	Ala	Gly	Val	Val	Met	Leu	Leu	Val	Leu	Tyr	Ala	Gly			
		115					120					125			

<210> 9473

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9473

Thr	Ile	Thr	Val	Pro	Thr	Ser	Ala	Pro	Asn	Leu	Leu	Val	Thr	Asn	Ser
1				5					10					15	
Ala	Ala	Gly	Cys	Gly	Gly	Thr	Thr	Gln	Cys	Thr	Ala	Ile	Ser	Ala	Val
			20					25					30		
Gln	Ser	Gly	Met	Ala	Ser	Leu	Ser	Ser	Asp	Val	Leu	Val	Phe	Leu	Ala
		35					40					45			
Met	Glu	Asn	Ala	Ser	Gly	Ile	Ser	Ser	Thr	Thr	Pro	Thr	Ser	Thr	Asn
	50					55					60				
Ser	Val	Met	Pro	Gln	Ile	Arg	Pro	Thr	Arg	Thr	Ile	Ile	Thr	Ser	Ala
65					70					75					80

Asp Ser Gln Arg Gln Arg Cys Asn Val Ile Pro Met Arg Ser Ala Ala
 85 90 95
 Pro Glu Thr Ser Ile Ile Leu Pro Arg Ile Val Pro Arg Pro Ile Thr
 100 105 110
 Ala Ala Arg Lys Pro Ser Val Pro Ile Pro Leu Ser Met Ala Leu
 115 120 125
 Thr Ile Ser Ser Gly Leu Ile Pro Ile Ile Ala Pro Thr Lys Lys Leu
 130 135 140
 Ala Ser Ser Ser Ala Arg Asn Gly
 145 150

<210> 9474

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9474

Gly Glu Glu Met Met Ile Val Ala Asp Ala Met Lys Ala Thr His Ala
 1 5 10 15
 Leu Val Ala Ala Val Pro Leu Leu Gly Glu Gln Pro Ser Glu Lys Asp
 20 25 30
 Tyr Lys Asp Ala Leu Glu Leu Val Glu Tyr Leu Leu Met Asn Glu Pro
 35 40 45
 Asn Ser Pro Leu Leu Asp Ile Val Cys Ala Arg Ile Ser Arg Tyr Glu
 50 55 60
 Ala Asn Arg Pro Glu Ile Val Ala Leu Arg Lys Glu Met Glu Ser Val
 65 70 75 80
 Pro Val Gly Ile Ala Val Leu Arg Thr Leu Met Asp Gln Tyr Asn Leu
 85 90 95
 Thr Ile Ser Asp Phe Lys Asp Glu Ile Gly Ser Lys Ser Met Val Ser
 100 105 110
 Arg Val Leu Asn Gly Gln Arg Gln Leu Thr Leu Asn His Ile Lys Lys
 115 120 125
 Leu Ala Ala Arg Phe Gly Val Ser Pro Ala Leu Phe Ile Glu
 130 135 140

<210> 9475

<211> 577

<212> PRT

<213> Enterobacter cloacae

<400> 9475

Thr Thr Thr Arg Lys Ala Gly Ser Glu Glu Lys Asp Trp Ser Met Ala
 1 5 10 15
 Ser Ser Gly Thr Thr Ser Thr Lys Thr Arg Phe Thr Gly Ala Gln Leu
 20 25 30
 Ile Val His Leu Leu Glu Arg Gln Gly Ile Thr Thr Val Ala Gly Ile
 35 40 45
 Pro Gly Gly Thr Val Leu Pro Leu Tyr Asp Ala Leu Ser Gln Ser Thr
 50 55 60
 Gln Ile Arg His Val Leu Ala Arg His Glu Gln Gly Ala Gly Phe Ile
 65 70 75 80
 Ala Gln Gly Met Ala Arg Thr Gln Gly Lys Pro Ala Val Cys Met Ala
 85 90 95
 Cys Ser Gly Pro Gly Ala Thr Asn Leu Val Thr Ala Ile Ala Asp Ala
 100 105 110
 Arg Leu Asp Ser Ile Pro Leu Ile Cys Ile Thr Gly Gln Val Pro Ser
 115 120 125
 Ser Met Ile Gly Thr Asp Ala Phe Gln Glu Val Asp Thr Tyr Gly Ile
 130 135 140
 Ser Ile Pro Ile Thr Lys His Asn Tyr Leu Val Arg Asp Ile Ser Glu

145					150					155				160
Leu	Pro	Gln	Val	Ile	Ser	Asp	Ala	Phe	Arg	Ile	Ala	Gln	Ser	Gly
				165					170					175
Pro	Gly	Pro	Val	Trp	Ile	Asp	Ile	Pro	Lys	Asp	Val	Gln	Thr	Ala
			180					185					190	
Ile	Glu	Ile	Asp	Ile	Leu	Pro	Glu	Pro	Gly	Glu	Arg	Ala	Pro	Ala
		195					200					205		Pro
Glu	Phe	Ser	Ala	Glu	Ser	Val	Arg	Asp	Ala	Ala	Ala	Met	Ile	Asn
	210					215					220			Ala
Ala	Lys	Arg	Pro	Val	Leu	Tyr	Leu	Gly	Gly	Gly	Ala	Ile	Asn	Ala
225					230				235					240
Asp	Glu	Ile	Arg	Gln	Phe	Ala	Glu	Lys	Ala	Asn	Leu	Pro	Thr	Thr
				245					250					255
Thr	Leu	Met	Ala	Leu	Gly	Met	Leu	Pro	Lys	Ala	His	Pro	Leu	Ser
			260					265					270	Leu
Gly	Met	Leu	Gly	Met	His	Gly	Ala	Arg	Ser	Thr	Asn	Tyr	Ile	Leu
		275					280					285		Gln
Glu	Ala	Asp	Leu	Leu	Ile	Val	Met	Gly	Ala	Arg	Phe	Asp	Asp	Arg
	290					295					300			Ala
Ile	Gly	Lys	Thr	Glu	Gln	Phe	Cys	Pro	Asn	Ala	Lys	Ile	Ile	His
305					310					315				Val
Asp	Ile	Asp	Arg	Ala	Glu	Leu	Gly	Lys	Ile	Lys	Gln	Pro	His	Val
				325					330					Ala
Ile	Gln	Gly	Asp	Val	Ala	Glu	Val	Leu	Ala	Gln	Leu	Ile	Pro	Gln
			340					345					350	Thr
Val	Ala	Thr	Asp	Arg	Ala	Asp	Trp	Arg	Gln	Leu	Val	Ala	Asp	Leu
		355					360					365		Gln
Arg	Glu	Phe	Pro	Gly	Ala	Ile	Pro	Thr	Glu	Gly	Asp	Pro	Leu	Ser
	370					375					380			His
Tyr	Gly	Leu	Ile	Asn	Ala	Val	Ala	Ala	Cys	Val	Asp	Asp	Ser	Ala
385				390						395				Ile
Ile	Thr	Thr	Asp	Val	Gly	Gln	His	Gln	Met	Trp	Thr	Ala	Gln	Ala
				405					410					Tyr
Pro	Leu	Asn	Arg	Pro	Arg	Gln	Trp	Leu	Thr	Ser	Gly	Gly	Leu	Gly
			420					425					430	Thr
Met	Gly	Phe	Gly	Leu	Pro	Ala	Ala	Val	Gly	Ala	Ala	Leu	Ala	Asn
		435					440					445		Pro
Asp	Arg	Lys	Val	Ile	Cys	Phe	Ser	Gly	Asp	Gly	Ser	Leu	Met	Met
	450					455					460			Asn
Ile	Gln	Glu	Met	Ala	Thr	Ala	Ala	Glu	Asn	Gln	Leu	Asp	Val	Lys
465					470					475				Ile
Ile	Leu	Met	Asn	Asn	Glu	Ala	Leu	Gly	Leu	Val	His	Gln	Gln	Gln
			485					490						Ser
Leu	Phe	Tyr	Lys	Gln	Gly	Val	Phe	Ala	Ala	Thr	Tyr	Pro	Gly	Met
			500					505					510	Ile
Asn	Phe	Met	Gln	Ile	Ala	Ala	Gly	Phe	Gly	Leu	His	Thr	Cys	Asp
		515					520					525		Leu
Asn	Ala	Glu	Glu	Asp	Ala	His	Ala	Ala	Leu	Gln	Asp	Ala	Ile	Ser
	530					535					540			Arg
Pro	Gly	Pro	Ala	Leu	Ile	His	Val	Arg	Ile	Asp	Pro	Glu	Gln	Lys
545					550					555				Val
Tyr	Pro	Met	Val	Pro	Pro	Gly	Ala	Ala	Asn	Thr	Glu	Met	Val	Gly
				565					570					Glu

<210> 9476

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9476

Ala	Met	Gln	Lys	Gln	His	Asp	Asn	Val	Ile	Leu	Glu	Leu	Thr	Val	Arg
1				5					10					15	
Asn	His	Pro	Gly	Val	Met	Thr	His	Val	Cys	Gly	Leu	Phe	Ala	Arg	Arg
			20					25					30		
Ala	Phe	Asn	Val	Glu	Gly	Ile	Leu	Cys	Leu	Pro	Ile	Gln	Gly	Ser	Glu
		35					40					45			
His	Ser	Arg	Ile	Trp	Leu	Leu	Val	Asn	Asp	Asp	Gln	Arg	Leu	Glu	Gln
	50					55					60				
Met	Ile	Ala	Gln	Ile	Asp	Lys	Leu	Glu	Asp	Val	Thr	Lys	Val	Ala	Arg
65					70					75					80
Asn	Gln	Ser	Asp	Pro	Thr	Met	Phe	Asn	Lys	Ile	Ala	Val	Phe	Phe	Glu
				85					90					95	

<210> 9477

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 9477

Gln	Leu	Ala	Met	Asn	Ser	Leu	Phe	Ser	Arg	Leu	Ile	Ala	Val	Val	Ala
1				5					10					15	
Ser	Phe	Phe	Ile	Phe	Ser	Ala	Ala	Trp	Phe	Cys	Leu	Trp	Ser	Ile	Ser
			20					25					30		
Leu	His	Leu	Val	Glu	Arg	Pro	Glu	Leu	Ala	Val	Leu	Leu	Phe	Pro	Phe
		35					40					45			
Gly	Leu	Arg	Leu	Gly	Leu	Met	Leu	Gln	Cys	Pro	Arg	Gly	Tyr	Trp	Pro
	50					55					60				
Val	Leu	Leu	Gly	Ala	Glu	Trp	Leu	Met	Leu	Ile	Trp	Leu	Ala	Gln	Glu
65					70					75					80
Val	Ala	Leu	Ala	His	Leu	Pro	Leu	Leu	Met	Thr	Gly	Ser	Leu	Leu	Thr
				85					90					95	
Leu	Ile	Pro	Val	Ala	Leu	Ile	Ser	Arg	Tyr	Arg	His	Gln	Arg	Asp	Trp
			100					105					110		
Arg	Thr	Leu	Leu	Arg	Gln	Gly	Ala	Ala	Leu	Ile	Ala	Ala	Ala	Leu	Leu
	115					120						125			
Gln	Ser	Leu	Pro	Trp	Val	Gly	Glu	Lys	Glu	Val	Leu	Asn	Ala	Leu	Leu
	130					135					140				
Leu	Thr	Leu	Thr	Gly	Gly	Leu	Thr	Leu	Ala	Pro	Thr	Cys	Leu	Val	Ile
145					150					155					160
Trp	His	Tyr	Leu	Thr	Ser	Thr	Val	Trp	Gln	Pro	Leu	Gly	Pro	Ala	Leu
			165					170					175		
Val	Ser	Gln	Pro	Val	Asn	Trp	Arg	Ala	Arg	His	Leu	Ile	Trp	Tyr	Leu
			180					185					190		
Leu	Leu	Phe	Val	Val	Ser	Leu	Trp	Leu	Gln	Leu	Gly	Leu	Pro	Ala	Glu
		195					200				205				
Leu	Ser	Arg	Phe	Thr	Pro	Phe	Cys	Leu	Ala	Leu	Pro	Ile	Ile	Ala	Leu
	210					215					220				
Ala	Trp	His	Tyr	Gly	Trp	Gln	Gly	Ala	Leu	Ile	Ala	Thr	Leu	Met	Asn
225					230					235					240
Ala	Ile	Ala	Leu	Ile	Ala	Ser	Gln	Thr	Trp	His	Asp	His	Pro	Val	Asp
				245					250					255	
Leu	Leu	Leu	Ser	Leu	Leu	Ala	Gln	Ser	Leu	Thr	Gly	Leu	Leu	Leu	Gly
			260				265						270		
Ala	Gly	Ile	Gln	Arg	Leu	Arg	Glu	Leu	Asn	Gln	Ser	Leu	Gln	Asn	Glu
	275						280					285			
Leu	Ala	Arg	Asn	Arg	Arg	Leu	Ala	Glu	Arg	Leu	Leu	Glu	Thr	Glu	Glu
	290					295					300				
Ser	Val	Arg	Gln	Glu	Val	Ala	Arg	Glu	Leu	His	Asp	Asp	Ile	Gly	Gln

305 310 315 320
 Thr Ile Thr Ala Ile Arg Thr Gln Ala Gly Ile Val Gln Arg Leu Ala
 325 330
 Ala Glu Asn Ala Gly Val Lys Gln Gly Ala His Ile Glu Gln Leu
 340 345 350
 Ser Leu Gly Val Tyr Asp Ser Val Arg Arg Leu Leu Gly Arg Leu Arg
 355 360 365
 Pro Arg Gln Leu Asp Asp Leu Ser Leu Glu Gln Ala Val Arg Ser Leu
 370 375 380
 Met Arg Glu Met Glu Leu Glu Ser Arg Gly Ile Val Ser His Leu Asp
 385 390 395 400
 Trp Arg Ile Ser Glu Pro Ala Leu Ser Glu Gly Gln Arg Val Thr Leu
 405 410 415
 Phe Arg Val Cys Gln Glu Gly Leu Asn Asn Ile Val Lys His Ala Ser
 420 425 430
 Ala Ser Ala Val Thr Ile Gln Gly Trp Gln Gln Asp Glu Arg Leu Met
 435 440 445
 Leu Val Ile Glu Asp Asp Gly Cys Gly Leu Pro Pro Gly Ser Gly Gln
 450 455 460
 Gln Gly Phe Gly Leu Ala Gly Met Arg Glu Arg Val Lys Ala Leu Gly
 465 470 475 480
 Gly Thr Leu Ser Leu Ser Cys Thr His Gly Thr Arg Val Ser Val Ser
 485 490 495
 Leu Pro Leu Arg Thr His His Val
 500 505

<210> 9478

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9478

Arg Arg Ala Cys Met Leu Thr Arg Arg Leu Ser Cys Leu Ala Leu Leu
 1 5 10 15
 Met Ala Leu Ala Ser Pro Ala Met Ala Ala Asn Ala Pro Thr Tyr Gly
 20 25 30
 Glu Lys Leu Glu Gly Phe Asp Tyr Gly Trp Pro Val Lys His Phe Thr
 35 40 45
 Phe Thr Ser Gln Asn Gln Pro Leu Asp Met Ala Tyr Leu Asp Val Lys
 50 55 60
 Pro Glu Lys Pro Asn Gly Arg Thr Val Val Leu Met His Gly Lys Asn
 65 70 75 80
 Phe Cys Ala Gly Thr Trp Asp Gly Thr Ile Arg Ala Leu Ser Ala Ser
 85 90 95
 Gly Tyr Arg Val Ile Ala Pro Asp Gln Ile Gly Phe Cys Lys Ser Thr
 100 105 110
 Lys Pro Glu His Tyr Gln Tyr Thr Phe Gln Gln Leu Ala Asp Asn Thr
 115 120 125
 His Ala Leu Leu Lys Thr Leu Gly Val Asp Arg Val Thr Val Ile Gly
 130 135 140
 His Ser Thr Gly Gly Met Leu Ala Thr Arg Tyr Ala Leu Met Trp Pro
 145 150 155 160
 Gln Gln Val Glu Gln Leu Val Met Val Asn Pro Ile Gly Leu Glu Asp
 165 170 175
 Trp Lys Ala Arg Gly Val Pro His Ile Thr Val Asp Gln Trp Tyr Gln
 180 185 190
 Arg Glu Leu Lys Val Ser Ala Asp Gly Ile Arg Gln Tyr Glu Lys Asn
 195 200 205
 Thr Tyr Tyr Ala Gly Glu Trp Lys Pro Glu Tyr Glu Arg Trp Val Thr
 210 215 220
 Met Leu Ala Gly Leu Asn Asn Gly Pro Gly Lys Glu Arg Val Ala Trp

225		230		235		240
Asn Ser Ala Leu Leu Tyr Asp Met Ile Tyr Thr Gln Pro Val Ile Tyr						
	245		250		255	
Glu Phe Ser Glu Leu Ser Met Pro Val Leu Leu Met Ile Gly Thr Lys						
	260		265		270	
Asp Asn Thr Ala Ile Gly Lys Asp Leu Ala Pro Pro Glu Ile Arg Lys						
	275		280		285	
Thr Leu Gly Asn Tyr Ala Val Leu Gly Lys Glu Thr Ala Lys Arg Ile						
	290		295		300	
Pro His Ala Thr Leu Val Glu Phe Asn Asp Met Gly His Ala Pro Gln						
305	310		315		320	
Met Gln Asp Pro Glu Arg Phe His Glu Ala Leu Leu Lys Gly Leu Gln						
	325		330		335	
Ala Arg						

<210> 9479

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 9479

Thr Met Lys Gln Ser Ala Ile Ile Trp Pro Asn Asp Tyr Leu Pro Gly						
1	5		10		15	
Thr Thr Asp Asn Phe Ala Ser Asn Glu Ile Ile Val Ala Gly Leu Ser						
	20		25		30	
Ala Lys Glu Ile Trp Ala Gln Leu Asn Asp Thr Thr Leu Trp Pro Asn						
	35		40		45	
Tyr Tyr Ser Asn Ala Glu Asp Ile Arg Phe His Asp Gly Ser Gly Pro						
	50		55		60	
Glu Leu Ser Ala Asn Ala Arg Phe Arg Phe Thr Thr Phe Gly Phe Pro						
65	70		75		80	
Val Glu Ala Gln Val Thr Glu Tyr Val Pro Pro Val Asp Gly Glu Ala						
	85		90		95	
Ala Arg Ile Ala Trp His Gly Trp Val Glu Gly Asp Ala Ser Ser Arg						
	100		105		110	
Leu Asp Val Ile His Ala Trp Leu Phe Glu Asp Leu Pro Gly Asn Arg						
	115		120		125	
Val Arg Ile Leu Thr Gln Glu Ser Gln Lys Gly Val Pro Ala Gln Glu						
	130		135		140	
Leu Ala Arg Thr Val Pro Asn Pro Met Ile Asn Gly His Gln Glu Trp						
145	150		155		160	
Ile Val Gly Leu Ala Asn Ala Ala Met Gln Glu Lys Leu Ser Lys Arg						
	165		170		175	

<210> 9480

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9480

Pro Pro Arg Thr Tyr Glu Trp Leu Ala Gly Ala Val Gly Asn Lys Pro						
1	5		10		15	
Leu Gln Gln Val Ser Gly Pro Leu Gly Gly Arg Pro Thr Leu Pro Ile						
	20		25		30	
Leu Gly Asn Leu Leu Leu Gln Val Ala Asp Gly Thr Leu Ser Leu Thr						
	35		40		45	
Gly Thr Asp Leu Glu Met Glu Met Ile Ala Arg Val Thr Leu Thr Gln						
	50		55		60	

Pro His Asp Ala Gly Ala Thr Thr Val Pro Ala Arg Lys Phe Phe Asp
 65 70 75 80
 Ile Cys Arg Gly Leu Pro Glu Gly Ala Glu Ile Ala Val Gln Leu Glu
 85 90 95
 Gly Asp Arg Met Leu Val Arg Ser Gly Arg Ser Arg Phe Ser Leu Ser
 100 105 110
 Thr Leu Pro Ala Ala Asp Phe Pro Asn Leu Asp Asp Trp Gln Ser Glu
 115 120 125
 Val Glu Phe Thr Leu Pro Gln Ala Thr Met Lys Arg Leu Ile Glu Ala
 130 135 140
 Thr Gln Phe Ser Met Ala His Gln Asp Val Arg Tyr Tyr Leu Asn Gly
 145 150 155 160
 Met Leu Phe Glu Thr Glu Gly Glu Glu Leu Arg Thr Val Ala Thr Asp
 165 170 175
 Gly His Arg Leu Ala Val Cys Ser Met Pro Ile Gly Asp Ser Leu Pro
 180 185 190
 Asn His Ser Val Ile Val Pro Arg Lys Gly Val Ile Glu Leu Met Arg
 195 200 205
 Met Leu Asp Gly Gly Asp Thr Pro Leu Arg Val Gln Ile Gly Ser Asn
 210 215 220
 Asn Ile Arg Ala His Val Gly Asp Phe Val Phe Thr Ser Lys Leu Val
 225 230 235 240
 Asp Gly Arg Phe Pro Asp Tyr Arg Arg Val Leu Pro Lys Asn Pro Asp
 245 250 255
 Lys Thr Leu Glu Ala Gly Cys Asp Ile Leu Lys Gln Ala Phe Ala Arg
 260 265 270
 Ala Ala Ile Leu Ser Asn Glu Lys Phe Arg Gly Val Arg Leu Tyr Val
 275 280 285
 Ser Glu Asn Gln Ile Lys Ile Thr Ala Asn Asn Pro Glu Gln Glu Glu
 290 295 300
 Ala Glu Glu Ile Leu Asp Val Thr Tyr Ala Gly Ala Glu Met Glu Ile
 305 310 315 320
 Gly Phe Asn Val Ser Tyr Val Leu Asp Val Leu Asn Ala Leu Lys Cys
 325 330 335
 Glu Asn Val Arg Ile Leu Leu Thr Asp Ser Val Ser Ser Val Gln Ile
 340 345 350
 Glu Asp Ala Ala Ser Gln Ser Ala Ala Tyr Val Val Met Pro Met Arg
 355 360 365
 Leu
 370

<210> 9481

<211> 810

<212> PRT

<213> Enterobacter cloacae

<400> 9481

Asn Glu Arg Glu Thr Leu Met Ser Asn Ser Tyr Asp Ser Ser Ser Ile
 1 5 10 15
 Lys Val Leu Lys Gly Leu Asp Ala Val Arg Lys Arg Pro Gly Met Tyr
 20 25 30
 Ile Gly Asp Thr Asp Asp Gly Thr Gly Leu His His Met Val Phe Glu
 35 40 45
 Val Val Asp Asn Ala Ile Asp Glu Ala Leu Ala Gly His Cys Lys Asp
 50 55 60
 Ile Val Val Thr Ile His Ala Asp Asn Ser Val Ser Val Thr Asp Asp
 65 70 75 80
 Gly Arg Gly Ile Pro Thr Gly Ile His Pro Glu Glu Gly Val Ser Ala
 85 90 95
 Ala Glu Val Ile Met Thr Val Leu His Ala Gly Gly Lys Phe Asp Asp
 100 105 110

Asn	Ser	Tyr	Lys	Val	Ser	Gly	Gly	Leu	His	Gly	Val	Gly	Val	Ser	Val
		115					120					125			
Val	Asn	Ala	Leu	Ser	Gln	Lys	Leu	Glu	Leu	Val	Ile	Gln	Arg	Glu	Gly
	130					135					140				
Lys	Ile	His	Arg	Gln	Ile	Tyr	Gln	His	Gly	Val	Pro	Glu	Ala	Pro	Leu
145					150					155					160
Ala	Val	Thr	Gly	Asp	Thr	Glu	Lys	Thr	Gly	Thr	Met	Val	Arg	Phe	Trp
				165					170					175	
Pro	Ser	Leu	Glu	Thr	Phe	Thr	Asn	Val	Thr	Glu	Phe	Glu	Tyr	Asp	Ile
			180				185						190		
Leu	Ala	Lys	Arg	Leu	Arg	Glu	Leu	Ser	Phe	Leu	Asn	Ser	Gly	Val	Ser
	195						200					205			
Ile	Arg	Leu	Arg	Asp	Lys	Arg	Asp	Asn	Lys	Glu	Asp	His	Phe	His	Tyr
	210					215					220				
Glu	Gly	Gly	Ile	Lys	Ala	Phe	Val	Glu	Tyr	Leu	Asn	Lys	Asn	Lys	Thr
225					230					235					240
Pro	Ile	His	Pro	Asn	Ile	Phe	Tyr	Phe	Ser	Thr	Glu	Lys	Asp	Gly	Ile
				245				250						255	
Gly	Val	Glu	Val	Ala	Leu	Gln	Trp	Asn	Asp	Gly	Phe	Gln	Glu	Asn	Ile
			260					265					270		
Tyr	Cys	Phe	Thr	Asn	Asn	Ile	Pro	Gln	Arg	Asp	Gly	Gly	Thr	His	Leu
	275						280					285			
Ala	Gly	Phe	Arg	Ala	Ala	Met	Thr	Arg	Thr	Leu	Asn	Ala	Tyr	Met	Asp
	290					295					300				
Lys	Glu	Gly	Tyr	Ser	Lys	Lys	Ala	Lys	Val	Ser	Ala	Thr	Gly	Asp	Asp
305					310					315					320
Ala	Arg	Glu	Gly	Leu	Ile	Ala	Val	Val	Ser	Val	Lys	Val	Pro	Asp	Pro
				325					330					335	
Lys	Phe	Ser	Ser	Gln	Thr	Lys	Asp	Lys	Leu	Val	Ser	Ser	Glu	Val	Lys
		340						345					350		
Ser	Ala	Val	Glu	Gln	Gln	Met	Asn	Glu	Leu	Leu	Ser	Glu	Tyr	Leu	Leu
		355					360					365			
Glu	Asn	Pro	Ser	Asp	Ala	Lys	Ile	Val	Val	Gly	Lys	Ile	Ile	Asp	Ala
	370					375					380				
Ala	Arg	Ala	Arg	Glu	Ala	Ala	Arg	Lys	Ala	Arg	Glu	Met	Thr	Arg	Arg
385					390					395					400
Lys	Gly	Ala	Leu	Asp	Leu	Ala	Gly	Leu	Pro	Gly	Lys	Leu	Ala	Asp	Cys
				405					410					415	
Gln	Glu	Arg	Asp	Pro	Ala	Leu	Ser	Glu	Leu	Tyr	Leu	Val	Glu	Gly	Asp
			420					425					430		
Ser	Ala	Gly	Gly	Ser	Ala	Lys	Gln	Gly	Arg	Asn	Arg	Lys	Asn	Gln	Ala
		435					440					445			
Ile	Leu	Pro	Leu	Lys	Gly	Lys	Ile	Leu	Asn	Val	Glu	Lys	Ala	Arg	Phe
	450					455					460				
Asp	Lys	Met	Leu	Ser	Ser	Gln	Glu	Val	Ala	Thr	Leu	Ile	Thr	Ala	Leu
465					470					475					480
Gly	Cys	Gly	Ile	Gly	Arg	Asp	Glu	Tyr	Asn	Pro	Asp	Lys	Leu	Arg	Tyr
				485					490					495	
His	Ser	Ile	Ile	Ile	Met	Thr	Asp	Ala	Asp	Val	Asp	Gly	Ser	His	Ile
			500					505					510		
Arg	Thr	Leu	Leu	Leu	Thr	Phe	Phe	Tyr	Arg	Gln	Met	Pro	Glu	Ile	Val
		515					520					525			
Glu	Arg	Gly	His	Val	Tyr	Ile	Ala	Gln	Pro	Pro	Leu	Tyr	Lys	Val	Lys
	530					535					540				
Lys	Gly	Lys	Gln	Glu	Gln	Tyr	Ile	Lys	Asp	Asp	Asp	Ala	Met	Asp	Gln
545					550					555					560
Tyr	Gln	Ile	Ala	Ile	Ala	Leu	Asp	Gly	Ala	Thr	Leu	His	Ala	Asn	Ser
				565					570					575	
Ser	Ala	Pro	Ala	Leu	Ala	Gly	Glu	Pro	Leu	Glu	Arg	Leu	Val	Ser	Glu
			580					585					590		
Phe	Asn	Ala	Thr	Gln	Lys	Met	Ile	Gly	Arg	Met	Glu	Arg	Arg	Tyr	Pro

	595		600		605										
Lys	Ala	Leu	Leu	Lys	Glu	Leu	Ile	Tyr	Gln	Pro	Thr	Leu	Thr	Glu	Ala
	610					615					620				
Asp	Leu	Ser	Asn	Glu	Gln	Thr	Val	Thr	Arg	Trp	Val	Asn	Thr	Leu	Val
625					630					635					640
Ser	Glu	Leu	Asn	Glu	Lys	Glu	Gln	His	Gly	Ser	Gln	Trp	Lys	Phe	Asp
				645					650					655	
Val	Gln	Gln	Asn	Ala	Glu	Gln	Gln	Phe	Glu	Pro	Ile	Val	Arg	Val	Arg
			660					665					670		
Thr	His	Gly	Val	Asp	Thr	Asp	Tyr	Pro	Leu	Glu	His	Glu	Phe	Val	Thr
	675					680					685				
Gly	Pro	Glu	Tyr	Arg	Arg	Ile	Cys	Thr	Leu	Gly	Glu	Lys	Leu	Arg	Gly
	690					695					700				
Leu	Ile	Glu	Asp	Asp	Ala	Phe	Ile	Glu	Arg	Gly	Glu	Arg	Arg	Gln	Pro
705					710						715				720
Val	Ala	Ser	Phe	Glu	Gln	Ala	Leu	Glu	Trp	Leu	Val	Lys	Glu	Ser	Arg
			725						730					735	
Arg	Gly	Leu	Ser	Ile	Gln	Arg	Tyr	Lys	Gly	Leu	Gly	Glu	Met	Asn	Pro
			740				745						750		
Asp	Gln	Leu	Trp	Glu	Thr	Thr	Met	Asp	Pro	Glu	Ser	Arg	Arg	Met	Leu
	755					760					765				
Arg	Val	Thr	Val	Lys	Asp	Ala	Ile	Ala	Ala	Asp	Gln	Leu	Phe	Thr	Thr
	770				775						780				
Leu	Met	Gly	Asp	Ala	Val	Glu	Pro	Arg	Arg	Ala	Phe	Ile	Glu	Glu	Asn
785					790					795					800
Ala	Leu	Lys	Ala	Ala	Asn	Ile	Asp	Ile							
				805				810							

<210> 9482

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9482

Phe	Gln	Glu	His	Leu	Ser	Met	Arg	Asn	Phe	Asp	Leu	Ser	Pro	Leu	Tyr
1				5				10						15	
Arg	Ser	Ala	Ile	Gly	Phe	Asp	Arg	Leu	Phe	Asn	His	Leu	Glu	Asn	Asn
			20					25					30		
Gln	Ser	Gln	Ser	Asn	Gly	Tyr	Pro	Pro	Tyr	Asn	Val	Glu	Leu	Val	Asp
		35					40					45			
Glu	Asn	His	Tyr	Arg	Ile	Ala	Ile	Ala	Val	Ala	Gly	Phe	Ala	Glu	Ser
	50					55					60				
Glu	Leu	Glu	Ile	Thr	Ala	Gln	Asp	Asn	Leu	Leu	Val	Val	Lys	Gly	Ser
65					70					75					80
His	Ala	Gly	Glu	Gln	Lys	Glu	Arg	Thr	Tyr	Leu	Tyr	Gln	Gly	Ile	Ala
				85				90						95	
Glu	Arg	Asn	Phe	Glu	Arg	Lys	Phe	Gln	Leu	Ala	Glu	Asn	Ile	His	Val
		100						105					110		
Lys	Gly	Ala	Asn	Leu	Val	Asn	Gly	Leu	Leu	Phe	Ile	Glu	Leu	Glu	Arg
		115					120					125			
Val	Ile	Pro	Glu	Glu	Lys	Lys	Pro	Arg	Arg	Ile	Glu	Ile	Asn		
	130					135					140				

<210> 9483

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9483

Arg	Ile	Gln	Ser	Pro	Gly	Arg	Thr	Arg	Cys	Gly	Ala	Ala	Arg	Gln	Arg
1				5					10					15	

His Thr Gly Asp Cys Arg Ser Ala Arg Ser Ser Gly Ala Arg Pro Ala
 20 25 30
 Gly Ile Ala Asp Glu Asn Pro Phe Asn Lys Arg Thr Asn His Ser Asp
 35 40 45
 Arg Gly Tyr Ile Met Lys Lys Phe Ser Val Val Ile Ala Gly Gly Gly
 50 55 60
 Ser Thr Phe Thr Pro Gly Ile Val Leu Met Leu Leu Ala Asn Arg Asp
 65 70 75 80
 Arg Phe Pro Leu Arg Ala Leu Lys Phe Tyr Asp Asn Asp Gly Ala Arg
 85 90 95
 Gln Glu Ile Ile Ala Glu Ala Cys Lys Ile Ile Leu Lys Glu Gln Ala
 100 105 110
 Pro Glu Ile Glu Phe Ser Tyr Thr Thr Asp Pro Glu Ala Phe Thr
 115 120 125
 Asp Val Asp Phe Val Met Ala His Ile Arg Val Gly Lys Tyr Pro Met
 130 135 140
 Arg Glu Lys Asp Glu Lys Ile Pro Leu Arg His Gly Val Leu Gly Gln
 145 150 155 160
 Glu Thr Cys Gly Pro Gly Gly Ile Ser Tyr Gly Met Arg Ser Ile Gly
 165 170 175
 Gly Val Leu Glu Leu Val Asp Tyr Met Glu Gln Tyr Ser Pro Asn Ala
 180 185 190
 Trp Met Leu Asn Tyr Ser Asn Pro Ala Ala Ile Val Ala Glu Ala Thr
 195 200 205
 Arg Arg Leu Arg Pro Asn Ala Lys Ile Leu Asn Ile Cys Asp Met Pro
 210 215 220
 Ile Gly Ile Glu Gly Arg Met Ala Gln Ile Val Gly Leu Lys Asp Arg
 225 230 235 240
 Lys Glu Met Arg Val Arg Tyr Tyr Gly Leu Asn His Phe Gly Trp Trp
 245 250 255
 Thr Ser Ile Glu Asp Gln Asn Gly Asn Asp Leu Met Pro Lys Leu Arg
 260 265 270
 Glu Tyr Val Ala Lys Asn Gly Tyr Val Pro Pro Ser Glu Asp Val His
 275 280 285
 Thr Glu Ala Ser Trp Asn Asp Thr Phe Ala Lys Ala Lys Asp Val Gln
 290 295 300
 Ala Leu Asp Pro Asp Thr Met Pro Asn Thr Tyr Leu Lys Tyr Tyr Leu
 305 310 315 320
 Phe Pro Asp Tyr Val Ala His Ser Asn Pro Glu Arg Thr Arg Ala
 325 330 335
 Asn Glu Val Met Asp His Arg Glu Lys His Val Phe Ser Ser Cys Arg
 340 345 350
 Ala Ile Ile Glu Ala Gly His Ser Ser Ala Gly Glu Leu Glu Ile Asp
 355 360 365
 Glu His Ala Ser Tyr Ile Val Asp Leu Ala Thr Ala Ile Ala Phe Asn
 370 375 380
 Thr Gln Glu Arg Met Leu Leu Ile Val Pro Asn Asn Gly Ala Ile His
 385 390 395 400
 Asn Phe Asp Ala Asp Ala Met Val Glu Ile Pro Cys Leu Val Gly His
 405 410 415
 Asn Gly Pro Glu Pro Leu Thr Val Gly Asp Ile Pro His Phe Gln Lys
 420 425 430
 Gly Leu Met Ser Gln Gln Val Ala Val Glu Lys Leu Val Val Asp Ala
 435 440 445
 Trp Glu Gln Arg Ser Tyr Gln Lys Leu Trp Gln Ala Ile Thr Leu Ser
 450 455 460
 Lys Thr Val Pro Ser Ala Ser Val Ala Lys Ala Ile Leu Asp Asp Leu
 465 470 475 480
 Ile Glu Ala Asn Lys Asp Tyr Trp Pro Glu Leu His
 485 490

<210> 9484
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 9484
 Cys Tyr Trp Cys Cys Met Pro Asp Ser Arg Lys Ala Arg Arg Glu Ala
 1 5 10 15
 Asp Pro Gly Leu Gln Pro Glu Arg Thr Ser Leu Ala Trp Leu Arg Thr
 20 25 30
 Leu Leu Gly Tyr Gly Ala Leu Ile Ala Leu Ala Ile Lys His Asn Trp
 35 40 45
 His Arg Thr Gly Ala Pro Phe Trp Ile Ser Ile Val Val Leu Ala Leu
 50 55 60
 Val Ala Ile Ile Leu Trp Arg Tyr Thr Arg Ser Arg Asn Leu Met Asp
 65 70 75 80
 Val Ser Gln Asn Asp Phe Ala Gln Pro Lys Ala Val Arg Asp Lys Phe
 85 90 95
 Leu Ile Ala Leu Ala Val Leu Ser Leu Ser Leu Leu Phe Ala Val Thr
 100 105 110
 His Ile Gln Gln Ile Leu His Leu
 115 120

<210> 9485
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 9485
 Trp Gln Trp Thr Arg Gln Ala Ser Arg Met His Leu Ile Ser Met Lys
 1 5 10 15
 Ala Ile Leu Asp Ala Val Ser Gln Phe Pro Gln His Arg Glu Glu Leu
 20 25 30
 Leu Phe Leu Gly Arg Val Ile Glu Lys Ser His Cys Pro Thr Pro Ala
 35 40 45
 Ala Leu Arg Lys Leu Phe Pro Thr Leu Asp Asn Phe Lys Tyr Leu Asp
 50 55 60
 Lys His Tyr Val Ile Asp Ile Ala Asn Asn Asn Leu Arg Val Val Ala
 65 70 75 80
 Leu Ile Phe Phe Glu Ser Gln Lys Phe Tyr Val Arg His Val Phe Thr
 85 90 95
 His Lys Glu Tyr Asp Arg Phe Thr Glu Lys His Arg Thr Lys Gly Lys
 100 105 110
 Lys

<210> 9486
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 9486
 Arg Arg Ser Thr Ser Trp Lys Thr Ser Pro Lys Trp Arg Ala Thr Ser
 1 5 10 15
 Pro Ile Pro Pro Cys Leu Thr Lys Leu Arg Cys Ser Ser Asn Arg Ser
 20 25 30
 Leu Lys Val Ser Val Phe Arg Ser Cys Arg Pro Asp Lys Arg Ser Ala
 35 40 45
 Ile Arg Leu Phe Gln Thr Ala Gly Thr His Met Thr Thr Ile Ala Leu
 50 55 60
 Ile Asp Asp His Leu Ile Val Arg Ser Gly Phe Ala Gln Leu Leu Asn

65					70					75				80	
Leu	Glu	Pro	Asp	Phe	Gln	Val	Val	Ala	Glu	Phe	Gly	Ser	Gly	Arg	Glu
				85					90					95	
Ala	Leu	Ala	Gly	Leu	Pro	Gly	Arg	Gly	Val	Gln	Val	Cys	Ile	Cys	Asp
			100					105					110		
Ile	Ser	Met	Pro	Asp	Leu	Ser	Gly	Leu	Glu	Leu	Leu	Ser	Gln	Leu	Pro
		115					120					125			
Lys	Gly	Met	Ala	Thr	Ile	Met	Leu	Ser	Val	His	Asp	Ser	Pro	Ala	Leu
	130					135					140				
Val	Glu	Gln	Ala	Leu	Asn	Ala	Gly	Ala	Arg	Gly	Phe	Leu	Ser	Lys	Arg
145					150					155					160
Cys	Ser	Pro	Asp	Glu	Leu	Ile	Ala	Ala	Val	Arg	Thr	Val	Ser	Thr	Gly
				165					170					175	
Gly	Cys	Tyr	Leu	Thr	Pro	Asp	Ile	Ala	Ile	Lys	Leu	Ala	Ala	Gly	Arg
			180					185					190		
Gln	Asp	Pro	Leu	Thr	Arg	Arg	Glu	Arg	Gln	Val	Ala	Glu	Lys	Leu	Ala
		195					200					205			
Gln	Gly	Met	Ser	Val	Lys	Glu	Ile	Ala	Val	Glu	Leu	Gly	Leu	Ser	Pro
	210					215					220				
Lys	Thr	Val	His	Val	His	Arg	Ala	Asn	Leu	Met	Glu	Lys	Leu	Asn	Val
225					230					235					240
Ser	Asn	Asp	Val	Glu	Leu	Ala	Arg	Arg	Met	Phe	Asp	Ser	Trp	Gln	
				245					250					255	

<210> 9487

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9487

Gly	Arg	Ile	Met	Phe	Lys	Thr	Pro	Ala	Ser	Ala	Ala	Pro	Leu	Ser	Asn
1				5					10					15	
Lys	Ala	Glu	Ile	Asp	Ser	Arg	Tyr	Arg	Tyr	Trp	Arg	Arg	His	Ile	Leu
		20						25					30		
Ile	Thr	Ile	Trp	Leu	Gly	Tyr	Ala	Leu	Phe	Tyr	Phe	Thr	Arg	Lys	Ser
		35					40					45			
Phe	Asn	Ala	Ala	Ala	Pro	Glu	Ile	Leu	Ala	Ser	Gly	Val	Met	Thr	Arg
	50					55					60				
Thr	Asp	Ile	Gly	Leu	Leu	Ala	Thr	Leu	Phe	Tyr	Ile	Thr	Tyr	Gly	Leu
65					70					75					80
Ser	Lys	Phe	Phe	Ser	Gly	Ile	Val	Ser	Asp	Arg	Ser	Asn	Ala	Arg	Tyr
				85					90					95	
Phe	Met	Gly	Val	Gly	Leu	Ile	Ala	Thr	Gly	Val	Val	Asn	Ile	Leu	Phe
		100						105					110		
Gly	Phe	Ser	Thr	Ser	Leu	Trp	Ala	Phe	Ala	Leu	Leu	Trp	Ala	Leu	Asn
		115					120					125			
Ala	Phe	Phe	Gln	Gly	Trp	Gly	Ala	Pro	Val	Cys	Ala	Arg	Leu	Leu	Thr
	130					135					140				
Ala	Trp	Tyr	Ser	Arg	Asn	Glu	Arg	Gly	Gly	Trp	Trp	Ala	Ile	Trp	Asn
145					150					155					160
Thr	Ala	His	Asn	Val	Gly	Gly	Ala	Leu	Ile	Pro	Met	Val	Val	Gly	Ala
			165						170					175	
Ala	Ala	Leu	His	Tyr	Gly	Trp	Arg	Ala	Gly	Met	Met	Ile	Ala	Gly	Gly
		180						185					190		
Leu	Ala	Ile	Val	Ala	Gly	Leu	Phe	Leu	Cys	Trp	Arg	Leu	Arg	Asp	Arg
		195					200					205			
Pro	Gln	Thr	Val	Gly	Leu	Pro	Pro	Val	Gly	Asp	Trp	Arg	His	Asp	Glu
	210					215					220				
Met	Glu	Ile	Ala	Gln	Gln	Glu	Gly	Ala	Gly	Leu	Ser	Arg	Gln	Glu	
225					230				235						240
Ile	Leu	Thr	Lys	Tyr	Val	Leu	Lys	Asn	Pro	Tyr	Ile	Trp	Leu	Leu	Ser

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<210> 9488
<211> 508
<212> PRT
<213> Enterobacter cloacae
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<400>	9488														
Arg	Ala	Ser	Pro	Phe	Ala	Ala	Glu	Thr	Arg	Lys	Thr	Lys	Lys	Phe	Ser
1				5					10					15	
Arg	Phe	His	Leu	Asp	Ala	Val	Ser	Gly	Ile	Ser	Pro	Gly	Trp	Phe	Leu
			20					25					30		
Gln	Cys	Cys	Lys	Asn	Gln	Leu	Arg	Ser	Lys	Pro	Thr	Met	Leu	Ala	Phe
			35				40					45			
Leu	Asn	Gln	Val	Arg	Lys	Pro	Thr	Leu	Asp	Leu	Pro	Leu	Asp	Val	Arg
			50			55					60				
Arg	Lys	Met	Trp	Phe	Lys	Pro	Phe	Met	Gln	Ser	Tyr	Leu	Val	Val	Phe
65				70						75					80
Ile	Gly	Tyr	Leu	Thr	Met	Tyr	Leu	Ile	Arg	Lys	Asn	Phe	Asn	Ile	Ala
				85					90					95	
Gln	Asn	Asp	Met	Ile	Ser	Thr	Tyr	Gly	Leu	Ser	Met	Thr	Gln	Leu	Gly
			100					105					110		
Met	Ile	Gly	Leu	Gly	Phe	Ser	Ile	Thr	Tyr	Gly	Val	Gly	Lys	Thr	Val
			115				120					125			
Val	Ser	Tyr	Tyr	Ala	Asp	Gly	Lys	Asn	Thr	Lys	Gln	Phe	Leu	Pro	Phe
			130			135					140				
Met	Leu	Ile	Leu	Ser	Ala	Ile	Cys	Met	Leu	Gly	Phe	Ser	Ala	Ser	Met
145					150					155					160
Gly	Ala	Gly	Ser	Val	Ser	Leu	Phe	Leu	Met	Ile	Ala	Phe	Tyr	Ala	Leu
				165					170					175	
Ser	Gly	Phe	Phe	Gln	Ser	Thr	Gly	Gly	Ser	Cys	Ser	Tyr	Ser	Thr	Ile
			180					185					190		
Thr	Lys	Trp	Thr	Pro	Arg	Arg	Lys	Arg	Gly	Ser	Tyr	Leu	Gly	Met	Trp
			195				200					205			
Asn	Ile	Ser	His	Asn	Leu	Gly	Gly	Ala	Gly	Ala	Ala	Gly	Val	Ala	Leu
			210			215					220				
Phe	Gly	Ala	Asn	Tyr	Leu	Phe	Asp	Gly	His	Val	Ile	Gly	Met	Phe	Ile


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225          230          235          240
Phe Pro Ser Ile Ile Ala Leu Ile Val Gly Phe Ile Gly Leu Arg Tyr
          245          250          255
Gly Ser Asp Ser Pro Glu Ser Tyr Gly Leu Gly Lys Ala Glu Glu Leu
          260          265          270
Phe Gly Glu Glu Ile Ser Glu Glu Asp Lys Asp Thr Glu Glu Asn Glu
          275          280          285
Met Thr Lys Trp Gln Ile Phe Val Glu Tyr Val Leu Lys Asn Lys Val
          290          295          300
Ile Trp Leu Leu Cys Phe Ser Asn Ile Phe Leu Tyr Val Val Arg Ile
305          310          315          320
Gly Ile Asp Gln Trp Ser Thr Val Tyr Ala Phe Gln Glu Leu Lys Leu
          325          330          335
Ser Lys Glu Val Ala Ile Gln Gly Phe Thr Leu Phe Glu Val Gly Ala
          340          345          350
Leu Val Gly Thr Leu Leu Trp Gly Trp Leu Ser Asp Leu Ala Asn Gly
          355          360          365
Arg Arg Ala Leu Val Ala Cys Ile Ala Leu Ala Leu Ile Ile Ala Thr
          370          375          380
Leu Gly Val Tyr Gln His Ala Ser Asn Gln Tyr Val Tyr Leu Ala Ser
385          390          395          400
Leu Phe Ala Leu Gly Phe Leu Val Phe Gly Pro Gln Leu Leu Ile Gly
          405          410          415
Val Ala Ala Val Gly Phe Val Pro Lys Lys Ala Ile Gly Ala Ala Asp
          420          425          430
Gly Ile Lys Gly Thr Phe Ala Tyr Leu Ile Gly Asp Ser Phe Ala Lys
          435          440          445
Leu Gly Leu Gly Met Ile Ala Asp Gly Thr Pro Ile Phe Gly Leu Thr
          450          455          460
Gly Trp Ala Gly Thr Phe Ala Ala Leu Asp Ala Ala Ala Ile Gly Cys
465          470          475          480
Ile Val Leu Met Ala Met Val Ala Val Leu Glu Glu Arg Lys Ile Arg
          485          490          495
Arg Glu Asn Arg Ala Gln Lys Leu Lys Val Ala
          500          505

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<210> 9489
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae

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<400> 9489
Arg Val Met Met Met Ile Ala Leu Glu Glu Ala Val Met Glu Ile Ile
1          5          10          15
Val Asn Ala Gly Gln Ser Arg Ser Leu Cys Phe Glu Ala Leu His Ala
          20          25          30
Ala Arg Gln Gly Asn Leu Asp Glu Ala Lys Ser Leu Leu Arg Glu Ala
          35          40          45
Asp Gly Tyr Ala Arg Gln Ala His Lys Met Gln Thr Lys Leu Ile Glu
          50          55          60
Gln Asp Ala Gly Glu Ala Arg Gln Pro Met Thr Leu Ile Met Val His
          65          70          75          80
Ala Gln Asp His Leu Met Asn Ser Leu Leu Ala Arg Glu Leu Ser Glu
          85          90          95
Glu Ile Ile His Leu Tyr Gln Arg
          100          105

```

<210> 9490
 <211> 469
 <212> PRT
 <213> Enterobacter cloacae

Ile	Lys	Leu	Asn	Tyr	Ile	Glu	Ile	Thr	Met	Asn	Thr	Ile	Lys	Lys	Leu
1	Pro	Leu	Thr	Met	Ala	Val	Ile	Ala	Ala	Leu	Cys	Pro	Ile	Ser	Val
			20					25					30		
Ala	Gln	Glu	Phe	Thr	Gln	Glu	Gln	Ile	Asp	Ala	Ile	Val	Ala	Lys	Ala
		35					40					45			
Val	Asp	Lys	Ala	Leu	Ala	Glu	Arg	Gln	Ala	Lys	Met	Asp	Ala	Ala	Val
	50					55					60				
Ala	Lys	Lys	Ala	Asp	Val	Val	Thr	Glu	Pro	Gln	Ser	Ala	Ala	Gln	Ser
65					70					75					80
Pro	Asp	Met	Ala	Ile	Pro	Phe	Gly	Val	Lys	Phe	Thr	Gly	Tyr	Ala	Arg
				85					90					95	
Tyr	Gly	Ala	His	Phe	Gln	Ala	Ala	Asp	Gln	Lys	Tyr	Val	Ala	Val	Asp
			100					105					110		
Gly	Ser	Tyr	Asn	Gly	Ala	Ser	Ala	Ile	Gly	Arg	Leu	Gly	Asn	Glu	Gly
		115					120					125			
Asn	Gly	Gly	Glu	Phe	Gln	Leu	Ser	Lys	Ala	Phe	Lys	Gly	Glu	Asn	Gly
		130				135					140				
Ala	Ile	Trp	Asp	Ile	Asn	Val	Met	Ile	Asp	His	Trp	Gly	Asp	Glu	Val
145					150					155					160
Asn	Leu	Lys	Lys	Ala	Tyr	Ala	Gly	Val	Thr	Asn	Ile	Met	Ala	Ser	Asn
				165					170					175	
Pro	Asn	Ala	Tyr	Phe	Trp	Ala	Gly	Arg	Asp	Phe	His	Gln	Arg	Pro	Gln
			180					185					190		
Gln	Gly	Ile	Asn	Asp	Tyr	Phe	Trp	Met	Asn	His	Asp	Gly	Gln	Gly	Ala
		195					200					205			
Gly	Val	Lys	Asn	Phe	Asp	Ile	Gly	Gly	Val	Gln	Phe	Asp	Val	Ala	Ala
	210					215					220				
Val	Ala	Ala	Val	Glu	Ser	Cys	Ser	Pro	Glu	Val	Met	Glu	Asp	Glu	Ala
225					230					235					240
Asn	Pro	Ser	Arg	Ile	Thr	Cys	Thr	Gly	Gly	Ser	Gly	Thr	Gly	Asp	Lys
				245					250					255	
Gly	Asn	Tyr	Ala	Ala	Thr	Ser	Lys	Ile	His	Gly	Met	Lys	Leu	Gly	Pro
			260					265					270		
Leu	Asp	Leu	Glu	Leu	Tyr	Ala	Asn	Tyr	Gly	Phe	Asp	Ser	Lys	Ala	Val
		275					280					285			
Glu	Ser	Asp	Glu	Arg	Leu	Asn	Ala	Trp	Gln	Gly	Gly	Val	Val	Leu	Ser
	290					295					300				
His	Thr	Asn	Asp	Ser	Gly	Val	Asn	Lys	Val	Ile	Ala	Arg	Tyr	Ser	Asp
305					310					315					320
Asn	Ser	Asp	Asn	Ser	Val	Phe	Asn	Lys	Thr	Glu	Asp	Leu	Thr	Thr	Val
				325					330					335	
Tyr	Ala	Ser	Phe	Glu	Gly	Leu	Tyr	Lys	Phe	Thr	Gln	Ala	Thr	Gln	Val
			340					345					350		
Glu	Tyr	Ile	Leu	Ala	Phe	His	Asp	Tyr	Asp	Asn	Ser	Arg	Asp	Lys	Thr

465

<210> 9491

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9491

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Ser Lys Ser Lys Thr Ala Thr Lys Val Ala Val Phe Asn Val Arg Ser
1      5      10      15
Leu Ser Pro Trp Glu Arg Ala Gly Val Arg Ala Ser Gly Arg Thr Gln
20      25      30
Pro Cys Tyr Ala Val Asp Arg Ile Asn Asp Asn Ile Thr Gly Glu Asn
35      40      45
Met Gly Ser Thr Arg Lys Gly Met Leu Asn Val Leu Ile Ala Ala Val
50      55      60
Leu Trp Gly Ser Ser Gly Val Cys Ala Gln Tyr Ile Met Glu Lys Ser
65      70      75      80
His Ile Ser Ser Pro Tyr Leu Thr Met Val Arg Leu Leu Phe Thr Gly
85      90      95
Val Ile Leu Leu Thr Leu Ser Phe Val His Gly Asp Lys Ile Phe Ser
100     105     110
Val Ile Lys Asn Arg Lys Asp Ala Leu Ser Leu Leu Phe Phe Ser Leu
115     120     125
Val Gly Ala Leu Thr Val Gln Leu Thr Phe Leu Leu Thr Ile Glu Lys
130     135     140
Ser Asn Ala Ala Thr Ala Thr Val Leu Gln Phe Leu Ser Pro Thr Ile
145     150     155     160
Ile Val Ala Trp Phe Ala Leu Ala Arg Lys Thr Arg Pro Gly Ile Phe
165     170     175
Val Leu Ser Ala Ile Phe Thr Ser Leu Val Gly Thr Phe Leu Leu Val
180     185     190
Thr His Gly Asp Pro Thr Ser Leu Ser Ile Ser Pro Ala Ala Leu Phe
195     200     205
Phe Gly Ile Ala Ser Ala Phe Ala Ala Ala Phe Tyr Thr Thr Tyr Pro
210     215     220
Ser Thr Leu Ile Ala Arg Tyr Gly Thr Leu Pro Ile Val Gly Trp Ser
225     230     235     240
Met Leu Ile Ala Gly Leu Met Leu Thr Pro Phe Tyr Ala Gly Arg Gly
245     250     255
Thr Thr Phe Val Ile Asp Gly Gly Leu Leu Leu Ala Phe Phe Tyr Leu
260     265     270
Val Val Ile Gly Thr Ala Leu Thr Phe Ser Leu Tyr Leu Lys Gly Ala
275     280     285
Gln Met Ile Gly Gly Pro Lys Ala Ser Ile Leu Ser Cys Ala Glu Pro
290     295     300
Leu Ser Ser Ala Leu Leu Ser Val Val Leu Leu Gly Val Ala Phe Thr
305     310     315     320
Leu Pro Asp Trp Leu Gly Thr Leu Leu Ile Val Ser Ser Val Val Leu
325     330     335
Ile Ser Met Asp Ser Arg Arg Arg Val Lys Ala Ser Ala
340     345     350

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<210> 9492

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 9492

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Gln Asn Ile Met Lys Ala Asp Leu Arg Thr Leu Asp Leu Asn Leu Leu
1      5      10      15

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Lys Thr Leu Asp Ala Leu Leu Asp Glu Arg Ser Val Thr Arg Ala Ala
 20 25 30
 Ala Arg Leu Ala Leu Thr Gln Pro Ala Val Ser Gly Met Leu Asn Arg
 35 40 45
 Leu Arg Asp Tyr Phe Asp Asp Pro Leu Phe Ile Arg Ala Pro His Gly
 50 55 60
 Met Val Pro Thr Thr Arg Ala Glu Ala Leu Ala Ala Pro Val Lys Arg
 65 70 75 80
 Ile Leu Ala Asp Ile Asp Val Leu Leu Gln Pro Val Ala Phe Asp Pro
 85 90 95
 Asn Thr Ala Arg Leu Thr Phe Thr Leu Ala Ala Thr Asp Tyr Ala Leu
 100 105 110
 Arg Ala Val Val Val Pro Phe Ile Ala Ala Leu Lys Thr Gln Ala Pro
 115 120 125
 Gly Ile Arg Val Arg Val Val Pro Val Thr Pro Gly Ser Leu Val Ser
 130 135 140
 Gln Leu Glu Gln Gly Ala Ile Asp Val Ala Leu Ile Thr Pro His Thr
 145 150 155 160
 Thr Pro Asp Glu Leu His Ser Arg Ala Leu Tyr Asp Glu Arg Tyr Val
 165 170 175
 Cys Met Met Arg Ala Asp His Pro Asn Ala Gly Glu Pro Met Thr Leu
 180 185 190
 Asp Arg Phe Cys Ala Leu Glu His Val Leu Val Ser Tyr Glu Gly Asp
 195 200 205
 Gly Phe Arg Gly Val Thr Asp Ser Ala Leu Glu Lys Ile Gly Arg Thr
 210 215 220
 Arg His Val Gly Leu Ser Val Ser His Phe Leu Val Leu Pro Asp Val
 225 230 235 240
 Leu Ala Leu Ser Asp Met Ile Ala Val Val Pro Ser Arg Ile Ala Glu
 245 250 255
 Asn Gln Thr Gly Met Phe Ile Cys Glu Thr Pro Val Pro Val Pro Gly
 260 265 270
 Phe Thr Lys Ser Met Ala Trp His Gly Arg Thr His Arg Asn Pro Ala
 275 280 285
 Gln Ala Trp Leu Arg Gly Leu Leu Leu Gln Thr Ser Gln Arg Ala
 290 295 300

<210> 9493

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 9493

Asp Met Gly Ser Gln Val Trp Val Val Ala Thr Leu Leu Val Ser Ile
 1 5 10 15
 Val Leu Ile Val Leu Thr Ile Val Lys Leu Lys Phe His Pro Phe Leu
 20 25 30
 Ala Leu Leu Leu Ala Ser Phe Phe Val Gly Ala Met Met Gly Met Ser
 35 40 45
 Pro Leu Asp Met Val Asn Ala Ile Glu Ser Gly Ile Gly Gly Thr Leu
 50 55 60
 Gly Phe Leu Ala Ala Val Ile Gly Leu Gly Thr Ile Leu Gly Lys Met
 65 70 75 80
 Met Glu Val Ser Gly Ala Ala Glu Arg Ile Gly Ile Thr Leu Gln Arg
 85 90 95
 Cys Arg Trp Leu Ser Ala Asp Val Ile Met Val Leu Val Gly Leu Ile
 100 105 110
 Cys Gly Ile Thr Leu Phe Val Glu Val Gly Val Val Leu Leu Ile Pro
 115 120 125
 Leu Ala Phe Ser Ile Ala Lys Lys Thr Asn Thr Ser Leu Leu Lys Leu
 130 135 140

Ala	Ile	Pro	Leu	Cys	Thr	Ala	Leu	Met	Ala	Val	His	Cys	Val	Val	Pro
145					150					155					160
Pro	His	Pro	Ala	Ala	Leu	Phe	Val	Thr	Asn	Lys	Leu	Gly	Ala	Asp	Val
				165					170					175	
Gly	Thr	Val	Ile	Val	Tyr	Gly	Leu	Met	Val	Gly	Leu	Met	Ala	Ser	Leu
			180					185					190		
Val	Gly	Gly	Pro	Leu	Phe	Leu	Lys	Leu	Leu	Gly	Asn	His	Leu	Pro	Tyr
		195					200					205			
Lys	Pro	Val	Pro	Ala	Glu	Phe	Ser	Asp	Leu	Lys	Val	Arg	Glu	Glu	His
	210					215					220				
Thr	Leu	Pro	Ser	Leu	Gly	Ala	Thr	Leu	Phe	Thr	Val	Leu	Leu	Pro	Ile
225					230					235					240
Ala	Leu	Met	Leu	Val	Lys	Thr	Ile	Ala	Glu	Leu	Asn	Met	Ala	Lys	Glu
				245					250					255	
Gly	Ser	Leu	Tyr	Thr	Leu	Leu	Glu	Phe	Ile	Gly	Asn	Pro	Ile	Thr	Ala
			260					265					270		
Met	Phe	Ile	Ala	Val	Phe	Val	Ala	Tyr	Tyr	Leu	Leu	Gly	Ile	Arg	Gln
		275					280					285			
His	Met	Gly	Met	Gly	Ala	Met	Leu	Thr	His	Thr	Glu	His	Gly	Phe	Gly
	290					295					300				
Ser	Ile	Ala	Asn	Ile	Leu	Leu	Ile	Ile	Gly	Ala	Gly	Gly	Ala	Phe	Asn
305				310					315						320
Ala	Ile	Leu	Lys	Thr	Ser	Gly	Leu	Ala	Glu	Thr	Leu	Ala	His	Ile	Leu
				325					330					335	
Ser	Asn	Leu	His	Met	His	Pro	Ile	Leu	Leu	Ala	Trp	Leu	Val	Ala	Leu
			340					345					350		
Val	Leu	His	Ala	Ala	Val	Gly	Ser	Ala	Thr	Val	Ala	Met	Met	Gly	Ala
		355					360					365			
Thr	Ala	Ile	Val	Ala	Pro	Met	Leu	Pro	Leu	Tyr	Pro	Asn	Val	Ser	Pro
	370					375					380				
Glu	Ile	Ile	Thr	Ile	Ala	Ile	Gly	Ser	Gly	Ala	Ile	Gly	Cys	Thr	Ile
385					390					395					400
Val	Thr	Asp	Ser	Leu	Phe	Trp	Leu	Val	Lys	Gln	Tyr	Cys	Gly	Ala	Thr
				405					410					415	
Leu	Asn	Glu	Thr	Phe	Lys	Tyr	Tyr	Thr	Thr	Ala	Thr	Phe	Ile	Ala	Ser
			420					425					430		
Val	Leu	Ala	Leu	Gly	Gly	Thr	Phe	Leu	Leu	Ser	Phe	Ile	Ile		
		435					440					445			

<210> 9494

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 9494

Cys	Ala	Gln	Arg	Gly	Leu	Leu	Val	Ile	Tyr	Lys	Ser	Ile	Ala	Asp	Arg
1				5					10					15	
Leu	Arg	Leu	Arg	Leu	Asn	Ser	Ser	Asp	Tyr	Asn	Ile	Gly	Ser	Pro	Leu
			20					25					30		
Pro	Gly	Glu	Lys	Ala	Leu	Ala	Lys	Glu	Phe	Gly	Val	Ala	Arg	Met	Thr
		35					40					45			
Val	Arg	Lys	Ala	Leu	Asp	Leu	Leu	Val	Ser	Trp	Gly	Leu	Val	Glu	Arg
	50					55				60					
Arg	His	Gly	Ser	Gly	Thr	Phe	Val	Ala	Arg	Lys	Asp	Val	His	His	Glu
65					70				75						80
Thr	Thr	Asn	Leu	Thr	Gly	Leu	Val	Glu	Val	Leu	Arg	Gln	Gln	Gly	Lys
				85				90						95	
Glu	Val	Gln	Ser	Lys	Val	Leu	Gln	Phe	Glu	Val	Met	Pro	Ala	Pro	Pro
			100					105					110		
Ala	Ile	Ala	Ser	Gln	Leu	Arg	Ile	Gln	Val	Asp	Glu	Arg	Ile	Tyr	Phe
		115					120					125			

Ser Arg Arg Val Arg Tyr Val Asp Gly Lys Pro Leu Met Leu Glu Asp
 130 135 140
 Ser Phe Met Pro Val Lys Leu Phe Arg Asn Leu Ser Leu Ala His Leu
 145 150 155 160
 Glu Gly Ser Lys Phe Asp Tyr Ile Glu Lys Glu Cys Gly Ile Thr Ile
 165 170 175
 Ser Gly Asn Tyr Glu Ser Leu Thr Pro Val Leu Ala Asp Lys Gln Leu
 180 185 190
 Ala Gly Tyr Met Asn Val Pro Glu Gln Thr Pro Leu Leu Arg Ile Thr
 195 200 205
 Ser Leu Ser Tyr Ser Asp Ser Gly Glu Phe Leu Asn Tyr Ser Val Met
 210 215 220
 Phe Arg Asn Thr Ser Asp Tyr Gln Val Asp Tyr His Leu Arg Arg Ile
 225 230 235 240
 His Pro Glu Asp Leu Leu Ala His Pro Pro Glu
 245 250

<210> 9495

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9495

Ile Thr Glu Ala Asp Asp Tyr Arg Gln Leu Leu Gly Glu Asp Lys Phe
 1 5 10 15
 Leu Asp Arg Pro Gly Asn Ala Val Phe Gln Val Arg Phe Gly His Glu
 20 25 30
 Val Arg His Phe Phe Tyr Arg Arg Asp Gly Val Ile His Arg His Ala
 35 40 45
 His Ala Cys Ile Phe Asp His Arg Asn Ile Val Phe Leu Val Ala Gln
 50 55 60
 Arg His Asp Leu Leu Arg Leu Asp Ala Gln Arg Ile Gly Lys Arg Phe
 65 70 75 80
 Asp Ala Arg Ala Phe Ile Asp Ala Phe Ile Glu Asp Phe Glu Glu Val
 85 90 95
 Arg Arg Thr Phe Gln Tyr Gly Val Phe Leu Phe Tyr Leu Ser Arg Asn
 100 105 110
 Ala

<210> 9496

<211> 456

<212> PRT

<213> Enterobacter cloacae

<400> 9496

His Phe Pro Asp Asn Phe Trp Trp Gly Ser Ala Ser Ser Ala Leu Gln
 1 5 10 15
 Thr Glu Gly Thr Arg Glu Gly Glu Thr Trp Asp Tyr Trp Phe Ala
 20 25 30
 Arg Glu Pro Asn Arg Phe His Asn Gly Val Gly Pro Gln His Thr Ser
 35 40 45
 Thr Phe Tyr Gln His Trp Lys Thr Asp Ile Gln Leu Leu Lys Gln Leu
 50 55 60
 Asn His Asn Ser Phe Arg Thr Ser Ile Ser Trp Ala Arg Leu Ile Pro
 65 70 75 80
 Asp Gly Ile Gly Glu Val Asn Pro Asp Ala Val Asp Phe Tyr Asn Gln
 85 90 95
 Val Ile Asp Glu Leu Asn Glu Gln Gly Ile Thr Pro Phe Ile Thr Leu
 100 105 110
 Phe His Phe Asp Met Pro Met Ala Met Gln Glu Ile Gly Gly Trp Glu

115	120	125
Asn Arg Asp Val Val Asp	Ala Tyr Ala Arg Tyr	Ala Gln Ile Cys Phe
130	135	140
Glu Leu Phe Gly Asp Arg	Val Leu His Trp Phe	Thr Phe Asn Glu Pro
145	150	155
Ile Val Pro Val Glu Gly	Gly Tyr Leu Tyr Asp	Phe His Tyr Pro Asn
165	170	175
Val Val Asp Phe Arg Arg	Ala Ala Thr Val Ala	Tyr His Thr Val Leu
180	185	190
Ala His Ala Lys Ala Val	Gln Ala Tyr Arg Ala	Gly His Tyr Ala Gly
195	200	205
Glu Ile Gly Ile Val Leu	Asn Leu Thr Pro Ser	Tyr Pro Arg Ser Gln
210	215	220
Asn Pro Ala Asp Val Lys	Ala Ala His Val Ala	Asp Leu Met Phe Asn
225	230	235
Arg Ser Phe Leu Asp Pro	Val Leu Arg Gly Glu	Tyr Pro Ala Asp Leu
245	250	255
Val Ala Leu Leu Lys Ser	Tyr Asp Gln Leu Pro	Ala Cys Lys Pro Glu
260	265	270
Asp Gly Phe Leu Ile Ala	Glu Gly Lys Ile Asp	Leu Leu Gly Ile Asn
275	280	285
Tyr Tyr Gln Pro Arg Arg	Val Lys Cys Arg Asp	Ser Ala Val Asn Pro
290	295	300
Gln Ala Pro Phe Met Pro	Glu Trp Phe Phe Asp	Asn Tyr Glu Met Pro
305	310	315
Gly Arg Lys Met Asn Pro	Tyr Arg Gly Trp Glu	Ile Tyr Glu Pro Gly
325	330	335
Ile Tyr Asp Ile Leu Val	Asn Leu Arg Asp His	Tyr Gly Asn Pro Arg
340	345	350
Cys Phe Ile Ser Glu Asn	Gly Met Gly Val Glu	Asn Glu Gln Arg Phe
355	360	365
Ile Glu Asn Gly Gln Ile	Asn Asp Gln Tyr Arg	Ile Asp Phe Ile Ser
370	375	380
Glu His Leu Ser Trp Leu	His Lys Gly Ile Ser	Glu Gly Cys Asn Cys
385	390	395
Leu Gly Tyr His Met Trp	Thr Phe Ile Asp Asn	Trp Ser Trp Cys Asn
405	410	415
Ala Tyr Lys Asn Arg Tyr	Gly Phe Ile Gln Leu	Asp Val Glu Thr Gln
420	425	430
Gln Arg Thr Ile Lys Lys	Ser Gly Glu Trp Phe	Ala Ala Thr Ala Leu
435	440	445
Asn Asn Ser Phe Asp Lys	Glu	
450	455	

<210> 9497

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 9497

His Phe Thr Asn Arg Tyr	Ala Met Thr Ile Thr	Val Phe Cys Ile Leu
1	5	10
Leu Phe Ala Ala Leu	Leu His Ala Ser	Trp Asn Ala Ile Val
20	25	30
Gly Thr Asp Lys Leu	Tyr Ser Ala Ile	Gly Val Ser Gly Ser
35	40	45
Leu Ile Ala Leu Ile	Leu Leu Pro Phe	Ser Pro Gln Pro Thr
50	55	60
Ser Trp Pro Tyr Leu	Phe Val Ser Cys	Ala Leu Gln Val Val
65	70	75
Val Leu Val Ala Lys	Thr Tyr Gln Val	Ser Asp Met Ser Gln
		Thr Tyr

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<210> 9498
<211> 112
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9499
<211> 316
<212> PRT
<213> Enterobacter cloacae
```

<400> 9499															
Tyr	Asn	Ser	Ser	Met	Thr	Asp	Thr	Leu	Lys	Asp	Ile	Pro	Val	Phe	Val
1				5					10					15	
Ala	Ser	Val	Glu	Ala	Gly	Ser	Phe	Ala	Gln	Ala	Ala	Val	Arg	Leu	His
			20					25					30		
Leu	Ser	Arg	Ser	Ala	Val	Gly	Lys	Ser	Ile	Ala	Arg	Leu	Glu	Glu	Arg
		35					40					45			
Leu	Gly	Val	Arg	Leu	Phe	His	Arg	Thr	Thr	Arg	Ser	Gln	Arg	Leu	Thr
	50					55					60				


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Asp Asn Gly Ala Leu Phe Tyr Glu Arg Cys Leu Arg Ala Leu Glu Glu
65      70      75      80
Ile Arg Gly Ala Glu Ser Gln Leu Glu Thr Gly Lys His Gln Val Ser
      85      90
Gly Arg Leu Arg Val Ala Met Pro Val Leu Phe Gly Arg Gln Cys Ile
      100      105      110
Ala Pro Leu Leu Ile Glu Leu Ala Gln Glu His Pro Gly Leu Glu Leu
      115      120      125
Glu Met Ser Phe Ser Asp Arg Ile Val Asp Leu Val Glu Glu Gly Phe
      130      135      140
Asp Met Ala Val Arg Asn Gly Thr Leu Ala Asp Ser Ala Val Leu Val
145      150      155      160
Ala Arg Arg Leu Gly Val His Arg Met Val Leu Cys Ala Ala Pro Asp
      165      170      175
Tyr Leu Ile Lys Asn Gly Gln Pro Gln Ser Val Asp Asp Leu Arg Gln
      180      185      190
Tyr Thr Ala Ile Asn Tyr Thr Arg Ala Gly Arg Val Leu Pro Trp Gln
      195      200      205
Leu Met Asp Tyr Asp Gly Thr Ser Arg Thr Phe Ile Pro Arg Ser Ser
210      215      220
Leu Asn Met Asp Asp Leu Gln Ala Ile Cys Asp Ala Ala Leu Ala Gly
225      230      235      240
His Gly Ile Ala Trp Leu Pro Cys Trp Met Val Ile Lys Glu Ile His
      245      250      255
Gln Gly Asn Leu Val Pro Leu Phe Lys Gln Ala Pro Asp Val Arg Phe
      260      265      270
Asp Val His Ala Val Trp Gln Gln Thr Pro His Leu Pro Leu Arg Val
      275      280      285
Arg Ile Ala Ile Asp Met Leu Val Lys Arg Leu Pro Ala Val Met Ser
290      295      300
Leu Glu Phe Pro Ala Ser Ile Lys Lys Pro Arg
305      310      315

```

<210> 9500

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 9500

```

Ser Ala Ala Ser Tyr Val Val Val Lys Arg Arg Leu Asn Ile Asp Ile
1      5      10      15
Arg Arg Leu Gln Gly Val Leu Phe Asp Glu Gly Ala Thr Trp Phe Asn
      20      25      30
Arg Ile Ala His Gln Gly Arg Glu Gln Leu Ile Arg Cys Asp Cys Val
      35      40      45
Phe Asn Gly Asp Ala Gln His Ala Thr Ala Phe Arg Ile His Ser Gly
50      55      60
Phe Pro Gln Leu Ile Arg Val His Phe Ala Gln Ala Phe Ile Thr Leu
65      70      75      80
Asn Arg Glu Ala Ala Thr Gly Leu Phe His Gln Pro Leu Gln Arg Leu
      85      90      95
Phe Glu Ala Gly Tyr Arg Leu Thr Thr Leu Ala Thr Phe Asp Glu Arg
      100      105      110
Val Val Phe Asp Gln Thr Thr Gln Leu Leu Ala Glu Gly Ala Asp Thr
      115      120      125
Ala Val Phe Arg Thr Gly Asn Lys Leu Val Leu Gln Arg Val Val Gly
130      135      140
Ile Asp Ala Val Gly Thr His Ala Asn Asn Arg Leu Glu Leu Leu Leu
145      150      155      160
Ser Val Leu Leu Asn Val Glu Leu Pro Leu Ala Ala Val Leu Leu Phe
      165      170      175

```

Leu Val Gln Leu Ala His Gln Gly Val His Pro Ala Gly Asp Gly Leu
 180 185 190
 Leu Val Ala Gln Ile Gly Phe Gly Gln Gly Arg Leu Ile Asn Gln Leu
 195 200 205
 Phe Gln Gln Arg Phe Arg Ile Ala Thr Leu His Thr Ala Asn His Phe
 210 215 220
 Leu Arg Gly Val Glu Leu Gly Asn Gln Thr Leu Gln Arg Leu Thr Gly
 225 230 235 240
 Gln Arg Trp Arg Ala Gly Val Cys Val Gln Gly Arg Thr Ile Lys Gly
 245 250 255
 Asp Arg Asp Leu Val Leu Ile His Arg Val Val Ile Phe Asn Val Leu
 260 265 270
 Phe Leu Leu Ala Phe Phe His Leu Val Gln Arg Trp Leu Arg Asn Val
 275 280 285
 Asp Val Ala Ala Leu Asn Asp Phe Arg His Leu Thr Ile Glu Glu Gly
 290 295 300
 Gln Gln Gln Arg Thr Asp Val Arg Ala Val Asp Val Arg Ile Gly His
 305 310 315 320
 Asp Asp Asp Ala Val Ile Thr Gln Phe Val Arg Val Val Leu Val Ala
 325 330 335
 Thr Asn Ala Ala Ala Glu Arg Gly Asp Glu Arg Arg His Phe Leu Arg
 340 345 350
 Arg Glu His Leu Val Glu Ala Arg Phe Leu Asn Val Glu Asp Phe Thr
 355 360 365
 Leu Gln Arg Gln Asn Arg Leu Val Leu Ala Val Thr Ala Leu Leu Cys
 370 375 380
 Arg Thr Ala Arg Gly Val Pro Phe His Lys Val Gln Phe Arg Gln Arg
 385 390 395 400
 Arg Val Ala Phe Leu Thr Val Ser Gln Phe Ala Arg Gln Ala Cys Gln
 405 410 415
 Val Gln Arg Ala Phe Thr Thr Gly His Phe Thr Arg Phe Thr Arg Arg
 420 425 430
 Phe Thr Gly Thr Arg Arg Ile Asp Asn Phe Thr His His Asp Phe Arg
 435 440 445
 Val Gly Arg Val Phe Gln Gln Val Phe Ala Gln Gln Phe Val His Leu
 450 455 460
 Leu Phe Asn Arg Arg Phe His Leu Arg Arg Asp Gln Leu Val Phe Gly
 465 470 475 480
 Leu

<210> 9501

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 9501

Gly Glu Leu Arg Ile Arg His Leu His Gly Asp His Gly Asn Gln Ala
 1 5 10 15
 Phe Thr Gly Ile Val Thr Gly Gly Ala Asp Phe Arg Phe Phe Thr Val
 20 25 30
 Ala Phe Phe Val His Val Ser Val Gln Gly Thr Gly His Arg Arg Ala
 35 40 45
 Glu Ala Arg Lys Val Arg Thr Ala Val Ala Leu Trp Asn Val Val Gly
 50 55 60
 Glu Ala Val Asn Val Phe Leu Glu Thr Val Val Pro Leu Gln Gly His
 65 70 75 80
 Phe His Ala Asp Thr Val Phe Phe Ser Arg Glu Val Glu Asp Ile Arg
 85 90 95
 Val Asn Trp Arg Phe Val Leu Val Gln Ile Leu Asn Glu Arg Leu Asp
 100 105 110

```

Thr Thr Phe Val Met Glu Val Val Phe Phe Val Val Ala Phe Val Ala
115 120 125
Gln Thr Asn Arg His Ala Gly Val Gln Glu Arg Gln Phe Thr Gln Ala
130 135 140
Phe Arg Gln Asn Val Val Leu Glu Phe Gly Asp Val Gly Glu Gly Phe
145 150 155 160
Lys Ala Arg Pro Glu Thr His His Gly Thr Gly Phe Leu Gly Ile Thr
165 170 175
Arg Asp Gly Gln Arg Arg Phe Arg His Ala Val Leu Val Asp Leu Thr
180 185 190
Val Asn Phe Ala Phe Ala Leu Asp Asn Gln Leu Gln Leu Leu Arg Gln
195 200 205
Gly Val Tyr Tyr Gly Tyr Ala Tyr Ala Val Gln Thr Ala Gly Asn Phe
210 215 220
Ile Gly Val Ile Ile Glu Leu Thr Ala Cys Val Gln Asn Gly His Asp
225 230 235 240
His Phe Arg Ser Arg Tyr Ala Leu Phe Arg Val Asn Thr Gly Trp Asp
245 250 255
Ala Thr Ala Val Ile Gly Asn Gly His Gly Val Val Arg Met Asp Arg
260 265 270
Asp His Asp Val Phe Thr Val Thr Arg Glu Arg Phe Val Asp Ser Val
275 280 285
Ile Tyr His Leu Glu Tyr His Val Val Gln Thr Gly Ala Val Ile Arg
290 295 300
Val Ala Asp Ile His Thr Arg Ala Leu Thr His Arg Ile Gln Pro Phe
305 310 315 320
Gln Asp Phe Asp Thr Gly Gly Val Ile Arg Ile Arg His Gln Arg Phe
325 330 335
Ser Leu Ile Ser Thr Trp Val Asn Pro Leu Phe Tyr Pro Phe Pro Arg
340 345 350

```

<210> 9502

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9502

```

Ala Ser Phe Thr Arg Arg Ser Ser Gly Cys Arg Cys Val Gly Cys Val
1 5 10 15
Pro Ser Pro Gln Ser Arg Thr Tyr Val Arg Ser Trp Gly Phe Ala His
20 25 30
Leu Pro Pro Ser Cys Asn Pro Asn Tyr Leu Ala Tyr Pro Gly Gly Val
35 40 45
Leu Asn Glu Lys Pro Arg Pro Val Cys Ala Gly Gly Val Leu Asp Ser
50 55 60
Cys Val Asp Pro Val Pro Thr Ala His Cys Arg Arg Pro Pro Pro His
65 70 75 80
Ala Arg Arg Pro Leu Arg Gln Val Ala Gln Phe Leu Val Gly Ser Lys
85 90 95

```

<210> 9503

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 9503

```

Ser Leu Ile Leu His Leu Ser Leu Leu Ala Lys Val Phe Ser Asp Met

```

```

1           5           10           15
Lys Lys Gln Arg Asn Val Asn Leu Leu Leu Met Leu Val Leu Leu Val
20
Ala Val Gly Gln Met Ala Gln Thr Ile Tyr Ile Pro Ala Ile Ala Asp
35
Met Ala Lys Asp Leu Ser Val Arg Glu Gly Ala Val Gln Ser Val Met
50
Ala Ala Tyr Leu Leu Thr Tyr Gly Val Ser Gln Leu Val Tyr Gly Pro
65
Leu Ser Asp Arg Val Gly Arg Arg Pro Val Ile Leu Val Gly Met Ser
85
Ile Phe Met Val Ala Thr Met Ile Ala Ile Thr Thr His Ser Leu Thr
100
Val Leu Ile Ala Ala Ser Ala Leu Gln Gly Val Gly Thr Gly Val Gly
115
Gly Val Met Ala Arg Thr Leu Pro Arg Asp Met Tyr Gln Gly Thr Gln
130
Leu Arg His Ala Asn Ser Leu Leu Asn Met Gly Ile Leu Val Ser Pro
145
Leu Leu Ala Pro Leu Ile Gly Gly Leu Leu Asp Thr Val Trp Ser Trp
165
Arg Ala Cys Tyr Ala Phe Leu Leu Val Leu Cys Ile Ile Val Thr Phe
180
Ser Met Gly Arg Trp Met Pro Glu Thr Arg Pro Lys Asp Ala Pro Arg
195
Thr Lys Leu Ile Ala Ser Tyr Lys Thr Leu Phe Gly Asn Gly Ser Phe
210
Thr Cys Tyr Leu Leu Met Leu Ile Gly Gly Leu Ala Gly Ile Ala Val
225
Phe Glu Ala Cys Ser Gly Val Leu Leu Gly Ala Gly Leu Gly Leu Ser
245
Ser Met Val Val Ser Ile Leu Phe Ile Leu Pro Ile Pro Ala Ala Phe
260
Phe Gly Ala Trp Phe Ala Gly Arg Pro Asn Lys Arg Phe Ser Thr Leu
275
Met Trp Gln Ser Val Ile Ser Cys Leu Leu Ala Gly Leu Met Met Trp
290
Ile Pro Gly Leu Phe Asp Val Met Ser Val Trp Thr Leu Leu Ile Pro
305
Ala Ala Leu Phe Phe Gly Ala Gly Met Leu Phe Pro Leu Ala Thr
325
Ser Gly Ala Met Glu Pro Phe Pro Phe Leu Ala Gly Thr Ala Gly Ala
340
Leu Val Gly Gly Leu Gln Asn Ile Gly Ser Gly Ala Leu Ala Trp Leu
355
Ser Ala Met Met Pro Gln Thr Gly Gln Ala Ser Leu Gly Leu Leu Met
370
Thr Leu Met Gly Leu Leu Ile Leu Leu Cys Trp Leu Pro Leu Ala Ser
385
Arg Val Ser His His Glu Gln Pro Val
405
410

```

<210> 9504

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 9504

```

Asp Leu Gln Ile Leu Tyr Asp Gly Asp Val Tyr Arg Leu Gly Ala Cys
1           5           10           15
Thr Trp Arg His Ile Pro Ala Phe Phe His Tyr Leu Ser Ala Lys Arg

```

[illegible]

<213> Enterobacter cloacae

<400> 9505

His	Leu	Thr	Arg	Arg	Lys	Lys	Ala	Met	Ser	Gln	Ile	His	Lys	His	Asp
1				5					10					15	
Ile	Pro	Ala	Asn	Ile	Ala	Asp	Arg	Cys	Leu	Ile	Ser	Pro	Glu	Gln	Tyr
			20					25					30		
Gln	Glu	Lys	Tyr	Gln	Gln	Ser	Val	Ser	Ser	Pro	Asp	Ala	Phe	Trp	Gly
		35					40					45			
Glu	Gln	Gly	His	Ile	Leu	Asp	Trp	Ile	Lys	Pro	Tyr	Gln	Lys	Val	Lys
	50					55					60				
Asn	Thr	Ser	Phe	Ala	Pro	Gly	Asn	Val	Ser	Ile	Lys	Trp	Tyr	Glu	Asp
65					70					75				80	
Gly	Thr	Leu	Asn	Leu	Ala	Ala	Asn	Cys	Leu	Asp	Arg	His	Leu	Ala	Glu
			85						90					95	
Arg	Gly	Asn	Glu	Thr	Ala	Ile	Ile	Trp	Glu	Gly	Asp	Asp	Ala	Ser	Gln
			100					105					110		
Ser	Lys	His	Ile	Ser	Tyr	Lys	Glu	Leu	His	Arg	Asp	Val	Cys	Arg	Phe
		115					120					125			
Ala	Asn	Val	Leu	Leu	Ala	Gln	Gly	Ile	Lys	Lys	Gly	Asp	Val	Val	Ala
	130					135					140				
Ile	Tyr	Met	Pro	Met	Val	Pro	Glu	Ala	Ala	Val	Ala	Met	Leu	Ala	Cys
145					150					155					160
Ala	Arg	Ile	Gly	Ala	Ile	His	Ser	Val	Ile	Phe	Gly	Gly	Phe	Ser	Pro
			165						170					175	
Glu	Ala	Val	Ala	Gly	Arg	Ile	Val	Asp	Ser	Asn	Ser	Lys	Leu	Val	Ile
			180					185					190		
Thr	Ala	Asp	Glu	Gly	Val	Arg	Ala	Gly	Arg	Gly	Ile	Pro	Leu	Lys	Lys
		195					200					205			
Asn	Val	Asp	Glu	Ala	Leu	Lys	Asn	Pro	Asn	Val	Lys	Ser	Ile	Ser	Asn
	210					215					220				
Val	Ile	Val	Phe	Lys	Arg	Thr	Gly	Gly	Lys	Ile	Asp	Trp	His	Glu	Gly
225					230					235					240
Arg	Asp	Leu	Trp	Trp	Ser	Asp	Leu	Ile	Glu	Lys	Ala	Ser	Asp	Gln	His
			245						250					255	
Gln	Pro	Glu	Glu	Met	Asn	Ala	Glu	Asp	Pro	Leu	Phe	Ile	Leu	Tyr	Thr
			260					265					270		
Ser	Gly	Ser	Thr	Gly	Lys	Pro	Lys	Gly	Val	Leu	His	Thr	Thr	Gly	Gly
	275						280					285			
Tyr	Leu	Val	Tyr	Ala	Ala	Thr	Thr	Phe	Lys	Tyr	Val	Phe	Asp	Tyr	His
	290					295					300				
Pro	Gly	Asp	Ile	Tyr	Trp	Cys	Thr	Ala	Asp	Val	Gly	Trp	Val	Thr	Gly
305					310					315					320
His	Ser	Tyr	Leu	Leu	Tyr	Gly	Pro	Leu	Ala	Cys	Gly	Ala	Thr	Thr	Leu
			325						330					335	
Met	Phe	Glu	Gly	Val	Pro	Asn	Trp	Pro	Thr	Pro	Ala	Arg	Met	Cys	Gln
			340					345					350		
Val	Val	Asp	Lys	His	Gln	Val	Asn	Ile	Leu	Tyr	Thr	Ala	Pro	Thr	Ala
		355					360					365			
Ile	Arg	Ala	Leu	Met	Ala	Glu	Gly	Asp	Lys	Ala	Ile	Glu	Gly	Thr	Asp
	370					375					380				
Arg	Ser	Ser	Leu	Arg	Ile	Leu	Gly	Ser	Val	Gly	Glu	Pro	Ile	Asn	Pro
385					390					395					400
Glu	Ala	Trp	Glu	Trp	Tyr	Trp	Lys	Lys	Ile	Gly	Asn	Glu	Lys	Cys	Pro
			405						410					415	
Val	Met	Asp	Thr	Trp	Trp	Gln	Thr	Glu	Thr	Gly	Gly	Phe	Met	Ile	Thr
			420					425					430		
Pro	Met	Pro	Gly	Ala	Thr	Gln	Leu	Lys	Ala	Gly	Ser	Ala	Thr	Arg	Pro
		435					440					445			
Phe	Phe	Gly	Val	Gln	Pro	Ala	Leu	Val	Asp	Asn	Glu	Gly	Asn	Pro	Gln
	450					455					460				
Glu	Gly	Ala	Thr	Glu	Gly	Asn	Leu	Val	Ile	Val	Asp	Ser	Trp	Pro	Gly
465					470					475					480

Gln Ala Arg Thr Leu Phe Gly Asp His Glu Arg Phe Glu Gln Thr Tyr
 485 490 495
 Phe Ser Thr Phe Lys Asn Met Tyr Phe Ser Gly Asp Gly Ala Arg Arg
 500 505 510
 Asp Glu Asp Gly Tyr Tyr Trp Ile Thr Gly Arg Val Asp Asp Val Leu
 515 520 525
 Asn Val Ser Gly His Arg Leu Gly Thr Ala Glu Ile Glu Ser Ala Leu
 530 535 540
 Val Ser His Pro Lys Ile Ala Glu Ala Val Val Gly Ile Pro His
 545 550 555 560
 Asn Ile Lys Gly Gln Ala Ile Tyr Ala Tyr Val Thr Leu Asn His Gly
 565 570 575
 Glu Glu Pro Ser Pro Glu Leu Tyr Thr Glu Val Arg Asn Trp Val Arg
 580 585 590
 Lys Glu Ile Gly Pro Leu Ala Thr Pro Asp Val Leu His Trp Thr Asp
 595 600 605
 Ser Leu Pro Lys Thr Arg Ser Gly Lys Ile Met Arg Arg Ile Leu Arg
 610 615 620
 Lys Ile Ala Ala Gly Asp Thr Ser Asn Leu Gly Asp Thr Ser Thr Leu
 625 630 635 640
 Ala Asp Pro Gly Val Val Asp Lys Leu Leu Glu Glu Lys Gln Ala Ile
 645 650 655
 Ala Met Pro Ser
 660

<210> 9506

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9506

Gln Arg Ser Ser Ala Arg Gly Lys Ser Ile Met Lys Arg Ile Leu Thr
 1 5 10 15
 Ala Leu Ala Ala Thr Leu Pro Phe Ala Ala His Ala Ala Asp Ala Ile
 20 25 30
 Thr Gly Glu Val Gln Arg Gln Pro Thr Asn Trp Gln Ala Ile Ile Met
 35 40 45
 Phe Leu Ile Phe Val Val Leu Thr Leu Tyr Ile Thr Tyr Trp Ala Ser
 50 55 60
 Lys Gln Val Arg Ser Arg Asn Asp Tyr Tyr Thr Ala Gly Gly Asn Ile
 65 70 75 80
 Thr Gly Phe Gln Asn Gly Leu Ala Ile Ala Gly Asp Phe Met Ser Ala
 85 90 95
 Ala Ser Phe Leu Gly Ile Ser Ala Leu Val Tyr Thr Ser Gly Tyr Asp
 100 105 110
 Gly Leu Ile Tyr Ser Leu Gly Phe Leu Val Gly Trp Pro Ile Ile Leu
 115 120 125
 Phe Leu Ile Ala Glu Arg Leu Arg Asn Leu Gly Arg Tyr Thr Phe Ala
 130 135 140
 Asp Val Ala Ser Tyr Arg Leu Lys Gln Gly Pro Ile Arg Thr Leu Ser
 145 150 155 160
 Ala Cys Gly Ser Leu Val Val Val Ala Leu Tyr Leu Ile Ala Gln Met
 165 170 175
 Val Gly Ala Gly Lys Leu Ile Glu Leu Leu Phe Gly Leu Asn Tyr His
 180 185 190
 Ile Ala Val Val Leu Val Gly Val Leu Met Val Met Tyr Val Leu Phe
 195 200 205
 Gly Gly Met Leu Ala Thr Thr Trp Val Gln Ile Ile Lys Ala Val Leu
 210 215 220
 Leu Leu Phe Gly Ala Ser Phe Met Ala Phe Met Val Met Lys His Val
 225 230 235 240

```
<210> 9507
<211> 401
<212> PRT
<213> Enterobacter cloacae
```

Arg	Met	Ala	Asp	Met	Lys	Ile	Lys	Thr	Gly	Ala	Arg	Val	Phe	Ala	Leu
1				5					10					15	
Ser	Ala	Leu	Ala	Ala	Met	Met	Ile	Ser	Ala	Pro	Ala	Leu	Ala	Lys	Ile
			20					25					30		
Glu	Glu	Gly	Lys	Leu	Val	Ile	Trp	Ile	Asn	Gly	Asp	Lys	Gly	Tyr	Asn
		35					40					45			
Gly	Leu	Ala	Glu	Val	Gly	Lys	Lys	Phe	Glu	Lys	Asp	Thr	Gly	Ile	Lys
	50					55					60				
Val	Thr	Val	Glu	His	Pro	Asp	Lys	Leu	Glu	Glu	Lys	Phe	Pro	Gln	Val
65					70					75				80	
Ala	Ala	Thr	Gly	Asp	Gly	Pro	Asp	Ile	Ile	Phe	Trp	Ala	His	Asp	Arg
				85					90					95	
Phe	Gly	Gly	Tyr	Ala	Gln	Ser	Gly	Leu	Leu	Ala	Glu	Val	Thr	Pro	Asp
			100					105					110		

Lys Ala Phe Gln Asp Lys Leu Phe Pro Phe Thr Trp Asp Ala Val Arg
 115 120 125
 Tyr Asn Gly Lys Leu Ile Ala Tyr Pro Ile Ala Val Glu Ala Leu Ser
 130 135 140
 Leu Ile Tyr Asn Lys Asp Leu Val Pro Asn Pro Pro Lys Thr Trp Glu
 145 150 155 160
 Glu Ile Pro Ala Leu Asp Lys Glu Leu Lys Ala Lys Gly Lys Ser Ala
 165 170 175
 Leu Met Phe Asn Leu Gln Glu Pro Tyr Phe Thr Trp Pro Leu Ile Ala
 180 185 190
 Ala Asp Gly Gly Tyr Ala Phe Lys Phe Glu Asn Gly Lys Tyr Asp Val
 195 200 205
 Lys Asp Val Gly Val Asp Ser Ala Gly Ala Lys Lys Gly Leu Thr Phe
 210 215 220
 Leu Val Asp Leu Ile Lys Asn Lys His Met Asn Ala Asp Thr Asp Tyr
 225 230 235 240
 Ser Ile Ala Glu Ala Ala Phe Asn Lys Gly Glu Thr Ala Met Thr Ile
 245 250 255
 Asn Gly Pro Trp Ala Trp Thr Asn Ile Asp Lys Ser Lys Ile Asn Tyr
 260 265 270
 Gly Val Thr Leu Leu Pro Thr Phe Asn Gly Lys Pro Ser Lys Pro Phe
 275 280 285
 Val Gly Val Leu Ser Ala Gly Ile Asn Ala Ala Ser Pro Asn Lys Glu
 290 295 300
 Leu Ala Lys Glu Phe Leu Glu Asn Tyr Leu Leu Thr Asp Gln Gly Leu
 305 310 315 320
 Asp Glu Val Asn Lys Asp Lys Pro Leu Gly Ala Val Ala Leu Lys Ser
 325 330 335
 Phe Gln Asp Gln Leu Ala Lys Asp Pro Arg Ile Ala Ala Thr Met Asp
 340 345 350
 Asn Ala Gln Lys Gly Glu Ile Met Pro Asn Ile Pro Gln Met Ala Ala
 355 360 365
 Phe Trp Tyr Ala Thr Arg Thr Ala Val Ile Asn Ala Ala Ser Gly Arg
 370 375 380
 Gln Thr Val Asp Ala Ala Leu Lys Asp Ala Gln Gly Arg Ile Thr Lys
 385 390 395 400

<210> 9508

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (248)

<400> 9508

Leu Arg Arg Ala Leu Asn Met Ala Met Val Gln Pro Lys Ser Gln Lys
 1 5 10 15
 Leu Arg Leu Leu Ala Thr His Leu Gly Leu Leu Ile Phe Ile Ala Ala
 20 25 30
 Ile Met Phe Pro Leu Leu Met Val Ile Ala Ile Ser Leu Arg Ser Gly
 35 40 45
 Asn Phe Ala Thr Gly Ser Leu Ile Pro Asp Glu Ile Ser Trp Glu His
 50 55 60
 Trp Lys Leu Ala Leu Gly Phe Ser Val Glu His Ala Asp Gly Arg Val
 65 70 75 80
 Thr Pro Pro Pro Phe Pro Val Leu Leu Trp Leu Trp Asn Ser Val Lys
 85 90 95

```

Val Ala Thr Ile Thr Ala Ile Gly Ile Val Thr Leu Ser Thr Thr Cys
      100      105      110
Ala Tyr Ala Phe Ala Arg Met Arg Phe Pro Gly Lys Ala Thr Leu Leu
      115      120      125
Lys Val Met Leu Ile Phe Gln Met Phe Pro Ala Val Leu Ser Leu Val
      130      135      140
Ala Leu Tyr Ala Val Phe Asp Arg Leu Gly Gln Tyr Val Pro Phe Ile
      145      150      155      160
Gly Leu Asn Thr His Gly Gly Val Ile Phe Ala Tyr Leu Gly Gly Ile
      165      170      175
Ala Leu His Val Trp Thr Ile Lys Gly Tyr Phe Glu Thr Ile Asp Gly
      180      185      190
Ser Leu Glu Ala Ala Ala Leu Asp Gly Ala Thr Pro Trp Gln Ala
      195      200      205
Phe Arg Leu Val Leu Leu Pro Leu Ser Val Pro Ile Leu Ala Val Val
      210      215      220
Phe Ile Leu Ser Phe Ile Ala Ala Ile Thr Glu Val Pro Val Ala Ser
      225      230      235      240
Leu Leu Leu Arg Asp Val Asn Xaa Tyr Thr Leu Ala Val Gly Met Gln
      245      250      255
Gln Tyr Leu Asn Pro Gln Asn Tyr Leu Trp Gly Asp Phe Ala Ala Ala
      260      265      270
Ala Val Leu Ser Ala Ile Pro Ile Thr Val Val Phe Leu Leu Ala Gln
      275      280      285
Arg Trp Leu Val Asn Gly Leu Thr Ala Gly Gly Val Lys Gly
      290      295      300

```

<210> 9509

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 9509

```

Ala Asp Leu Gln Pro Gly Cys Ser Pro Gln Ala Gly Cys Arg Arg Arg
1      5      10      15
Ala Thr Phe Ser Arg Cys Gly Asn Ala Ala Ser Arg Trp Trp Pro Asp
      20      25      30
Pro Ala Ser Pro Ile Ser Ala Ala Arg Phe His Arg Lys Arg Ala Pro
      35      40      45
Gln Thr Val Ala Asp His Arg Leu Ala Ala Cys Thr Gly Trp His Thr
      50      55      60
Ala Cys Ser Glu Val Arg His Arg Ser Asp Ala Arg Pro Ala Cys Arg
      65      70      75      80
Thr Cys Cys Pro Thr Val Ser Gly Pro Ala Leu Trp Trp
      85      90

```

<210> 9510

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 9510

```

Asn Lys Pro Thr Leu Leu Leu Glu Ile Ser Val Met Asn Asn Asp Ile
1      5      10      15
Cys Gln Gln Ile Glu Asn Ser Ala His Tyr Arg Glu Leu Val Glu Lys
      20      25      30
Arg Gln Arg Phe Ala Phe Leu Leu Ser Ile Ile Met Leu Ile Ile Tyr
      35      40      45
Val Gly Phe Ile Leu Leu Ile Ala Phe Ala Pro His Trp Leu Gly Thr
      50      55      60
Pro Leu His Glu Gly Thr Ser Val Thr Arg Gly Ile Pro Ile Gly Ile

```

5111

65				70					75				80		
Gly	Val	Ile	Ile	Ile	Ser	Phe	Val	Leu	Thr	Gly	Val	Tyr	Val	Trp	Arg
				85					90					95	
Ala	Asn	Gly	Glu	Phe	Asp	Arg	Leu	Asn	Arg	Glu	Val	Leu	Arg	Glu	Val
			100					105					110		
Lys	Ala	Ser													
		115													

<210> 9511
 <211> 299
 <212> PRT
 <213> Enterobacter cloacae

<400> 9511															
Phe	Arg	Gly	Ile	Ile	Met	Asp	Ile	Arg	Thr	Leu	Arg	Tyr	Phe	Val	Glu
1				5					10					15	
Val	Val	Arg	Gln	Gln	Ser	Phe	Thr	Arg	Ala	Ala	Glu	Lys	Leu	Phe	Val
			20					25					30		
Thr	Gln	Pro	Thr	Ile	Ser	Lys	Met	Leu	Lys	Asn	Leu	Glu	Asp	Glu	Leu
		35					40					45			
Asn	Cys	Thr	Leu	Leu	Ile	Arg	Asp	Gly	Arg	Lys	Leu	Leu	Leu	Thr	Asp
	50					55					60				
Thr	Gly	Arg	Val	Val	Phe	Glu	Arg	Gly	Leu	Ala	Ile	Leu	Ala	Glu	Phe
65					70				75					80	
Arg	Gln	Leu	Glu	Ala	Glu	Leu	Gly	Asp	Ile	Asn	His	Leu	Thr	Lys	Gly
				85				90						95	
Leu	Leu	Arg	Leu	Gly	Ile	Pro	Pro	Met	Val	Gly	Met	Met	Met	Ala	Gly
			100					105					110		
Pro	Ile	Ser	Leu	Phe	Arg	Gln	Arg	Tyr	Pro	Gly	Val	Glu	Leu	Lys	Ile
		115					120					125			
Ser	Glu	Phe	Gly	Gly	Leu	Thr	Val	Gln	Gln	Ala	Val	Met	Asn	Gly	Glu
	130					135					140				
Leu	Asp	Val	Ala	Met	Thr	Ala	Leu	Pro	Val	Glu	Glu	Glu	Ser	Gly	Leu
145				150					155					160	
Ala	Thr	Leu	Pro	Leu	Phe	Ser	His	Pro	Leu	Cys	Val	Leu	Val	Pro	Arg
				165				170						175	
Ser	Gly	Asp	Trp	Leu	Lys	Ile	Asp	Ala	Val	Lys	Pro	Glu	Leu	Leu	Gly
		180					185						190		
Glu	His	Pro	Leu	Leu	Ile	Tyr	Asn	Glu	Asp	Phe	Ala	Leu	Ser	Arg	Gln
	195						200					205			
Leu	Met	Ala	Leu	Phe	Asn	Gln	His	Asn	Val	Lys	Pro	Arg	Ile	Ala	Val
	210					215					220				
Arg	Ser	Gly	Gln	Trp	Asp	Phe	Leu	Ala	Ala	Met	Val	Gln	Ala	Gly	Val
225					230				235					240	
Gly	Ile	Ala	Ile	Leu	Pro	Gln	Pro	Ile	Cys	Glu	Arg	Leu	Asp	Lys	Asn
				245					250					255	
Thr	Leu	Arg	Trp	Ile	Pro	Leu	Glu	Ser	Asp	Leu	His	Trp	Gln	Leu	Gly
		260					265					270			
Met	Ile	Trp	Arg	Glu	Gly	Val	Tyr	Leu	Ser	His	Ser	Ala	Gln	Ala	Trp
		275					280					285			
Leu	Gln	Cys	Cys	Glu	Gly	Phe	Trp	Val	Pro						
	290					295									

<210> 9512
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 9512															
Lys	Val	Gly	Leu	Phe	Glu	Arg	Tyr	Leu	Gln	Arg	Met	Phe	Arg	Thr	Val
1				5					10					15	

Met His Gln Thr Leu Gly Asp Tyr Ile Arg Gln Arg Arg Leu Leu Leu
 20 25 30
 Ala Ala Gln Ala Leu Arg Ser Thr Gln Arg Pro Ile Phe Asp Ile Ala
 35 40 45
 Met Asp Leu Gly Tyr Val Ser Gln Gln Thr Phe Ser Arg Val Phe Arg
 50 55 60
 Arg Glu Phe Asp Arg Thr Pro Ser Asp Tyr Arg His Gln Leu Asn
 65 70 75 80

<210> 9513

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9513

Arg Glu Thr Leu Phe His Ser Ser Ser Ser Val Leu Ser Arg Met Ser
 1 5 10 15
 Phe Met Ala Thr Ile Thr Thr Ser Met Val Leu Leu Arg Trp Pro Leu
 20 25 30
 Leu Ser Ala Val Leu Met Phe Leu Ala Ser Thr Leu Asn Ile Gln Phe
 35 40 45
 Arg Lys Ser Asp Tyr Ala Gly Leu Ala Val Ile Ser Thr Leu Leu Gly
 50 55 60
 Leu Gly Ala Ala Cys Trp Phe Ala Thr Gly Leu Leu Gly Ile Thr Leu
 65 70 75 80
 Val Asp Ile Ala Ala Val Trp Glu Asn Ile Lys Val Val Met Val Glu
 85 90 95
 Ala Met Ser His Thr Pro Pro Asp Trp Pro Met Val Ile Thr
 100 105 110

<210> 9514

<211> 941

<212> PRT

<213> Enterobacter cloacae

<400> 9514

Met Asp Lys Ile Glu Val Arg Gly Ala Arg Thr His Asn Leu Lys Asn
 1 5 10 15
 Ile Asn Leu Ile Ile Pro Arg Asp Lys Leu Ile Val Val Thr Gly Leu
 20 25 30
 Ser Gly Ser Gly Lys Ser Ser Leu Ala Phe Asp Thr Leu Tyr Ala Glu
 35 40 45
 Gly Gln Arg Arg Tyr Val Glu Ser Leu Ser Ala Tyr Ala Arg Gln Phe
 50 55 60
 Leu Ser Leu Met Glu Lys Pro Asp Val Asp His Ile Glu Gly Leu Ser
 65 70 75 80
 Pro Ala Ile Ser Ile Glu Gln Lys Ser Thr Ser His Asn Pro Arg Ser
 85 90 95
 Thr Val Gly Thr Ile Thr Glu Ile His Asp Tyr Leu Arg Leu Leu Tyr
 100 105 110
 Ala Arg Val Gly Glu Pro Arg Cys Pro Asp His Asp Val Pro Leu Ala
 115 120 125
 Ala Gln Thr Val Ser Gln Met Val Asp Asn Val Leu Ser Gln Pro Glu
 130 135 140
 Gly Lys Arg Leu Met Leu Leu Ala Pro Ile Ile Lys Glu Arg Lys Gly
 145 150 155 160
 Glu His Thr Lys Thr Leu Glu Asn Leu Ala Ser Gln Gly Tyr Ile Arg
 165 170 175
 Ala Arg Ile Asp Gly Glu Val Cys Asp Leu Ser Asp Pro Pro Lys Leu
 180 185 190
 Glu Leu Gln Lys Lys His Thr Ile Glu Val Val Ile Asp Arg Phe Lys

		195				200			205						
Val	Arg	Glu	Asp	Leu	Ala	Thr	Arg	Leu	Ala	Glu	Ser	Phe	Glu	Thr	Ala
	210					215					220				
Leu	Glu	Leu	Ser	Gly	Gly	Thr	Ala	Val	Val	Ser	Asp	Met	Asp	Asp	Ala
225					230						235				240
Lys	Ala	Glu	Glu	Leu	Leu	Phe	Ser	Ala	Asn	Phe	Ala	Cys	Pro	Ile	Cys
				245					250						255
Gly	Tyr	Ser	Met	Arg	Glu	Leu	Glu	Pro	Arg	Leu	Phe	Ser	Phe	Asn	Asn
			260					265					270		
Pro	Ala	Gly	Ala	Cys	Pro	Thr	Cys	Asp	Gly	Leu	Gly	Val	Gln	Gln	Tyr
		275					280					285			
Phe	Asp	Pro	Asp	Arg	Val	Ile	Gln	Asn	Pro	Glu	Leu	Ser	Leu	Ala	Gly
	290					295					300				
Gly	Ala	Ile	Arg	Gly	Trp	Asp	Lys	Arg	Asn	Phe	Tyr	Tyr	Phe	Gln	Met
305					310					315					320
Leu	Lys	Ser	Leu	Ala	Glu	His	Tyr	Lys	Phe	Asp	Val	Glu	Ala	Pro	Trp
				325					330						335
Ala	Ser	Leu	Ser	Ala	Asn	Val	His	Lys	Val	Ile	Leu	Phe	Gly	Ser	Gly
				340					345				350		
Lys	Glu	Asn	Ile	Glu	Phe	Lys	Tyr	Met	Asn	Asp	Arg	Gly	Asp	Thr	Ser
		355					360					365			
Val	Arg	Arg	His	Pro	Phe	Glu	Gly	Val	Leu	His	Asn	Met	Glu	Arg	Arg
	370					375					380				
Tyr	Lys	Glu	Thr	Glu	Ser	Ser	Ala	Val	Arg	Glu	Glu	Leu	Ala	Lys	Phe
385					390					395					400
Ile	Ser	Asn	Arg	Ser	Cys	Ala	Thr	Cys	Glu	Gly	Thr	Arg	Leu	Arg	Arg
				405					410						415
Glu	Ala	Arg	His	Val	Phe	Val	Glu	Asn	Thr	Ala	Leu	Pro	Thr	Ile	Ser
			420					425					430		
Asp	Met	Ser	Ile	Gly	His	Ala	Met	Asp	Phe	Phe	Asn	Asn	Leu	Lys	Leu
		435					440					445			
Ser	Gly	Gln	Arg	Ala	Lys	Ile	Ala	Glu	Lys	Val	Leu	Lys	Glu	Ile	Gly
	450					455				460					
Asp	Arg	Leu	Lys	Phe	Leu	Val	Asn	Val	Gly	Leu	Asn	Tyr	Leu	Thr	Leu
465					470					475					480
Ser	Arg	Ser	Ala	Glu	Thr	Leu	Ser	Gly	Gly	Glu	Ala	Gln	Arg	Ile	Arg
				485					490						495
Leu	Ala	Ser	Gln	Ile	Gly	Ala	Gly	Leu	Val	Gly	Val	Met	Tyr	Val	Leu
			500					505					510		
Asp	Glu	Pro	Ser	Ile	Gly	Leu	His	Gln	Arg	Asp	Asn	Glu	Arg	Leu	Leu
		515					520					525			
Gly	Thr	Leu	Val	His	Leu	Arg	Asn	Leu	Gly	Asn	Thr	Val	Ile	Val	Val
	530					535					540				
Glu	His	Asp	Glu	Asp	Ala	Ile	Arg	Ala	Ala	Asp	His	Val	Ile	Asp	Ile
545					550					555					560
Gly	Pro	Gly	Ala	Gly	Val	His	Gly	Gly	Gln	Val	Val	Ala	Glu	Gly	Thr
				565					570						575
Leu	Lys	Asp	Ile	Met	Ala	Val	Pro	Glu	Ser	Leu	Thr	Gly	Gln	Tyr	Met
			580					585					590		
Ser	Gly	Lys	Arg	Lys	Ile	Glu	Val	Pro	Lys	Gln	Arg	Val	Ala	Ala	Asn
		595					600					605			
Pro	Glu	Lys	Val	Leu	Lys	Leu	Thr	Gly	Ala	Arg	Gly	Asn	Asn	Leu	Lys
	610					615					620				
Asp	Val	Thr	Leu	Thr	Leu	Pro	Val	Gly	Leu	Phe	Thr	Cys	Ile	Thr	Gly
625					630					635					640
Val	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Leu	Ile	Asn	Asp	Thr	Leu	Phe	Pro
				645					650						655
Ile	Ala	Gln	Thr	Ala	Leu	Asn	Gly	Ala	Thr	Leu	Ala	Glu	Pro	Ala	Pro
			660				665					670			
Tyr	Arg	Asp	Ile	Gln	Gly	Leu	Glu	His	Phe	Asp	Lys	Val	Ile	Asp	Ile
		675					680					685			

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Asp Gln Ser Pro Ile Gly Arg Thr Pro Arg Ser Asn Pro Ala Thr Tyr
 690          695          700
Thr Gly Val Phe Thr Pro Val Arg Glu Leu Phe Ala Gly Val Pro Glu
705          710          715
Ala Arg Ser Arg Gly Tyr Thr Pro Gly Arg Phe Ser Phe Asn Val Arg
 725          730          735
Gly Gly Arg Cys Glu Ala Cys Gln Gly Asp Gly Val Ile Lys Val Glu
 740          745          750
Met His Phe Leu Pro Asp Ile Tyr Val Pro Cys Asp Gln Cys Lys Gly
 755          760          765
Lys Arg Tyr Asn Arg Glu Thr Leu Glu Ile Lys Tyr Lys Gly Lys Thr
 770          775          780
Ile His Glu Val Leu Asp Met Thr Ile Glu Glu Ala Arg Glu Phe Phe
785          790          795
Asp Ala Val Pro Ala Leu Ala Arg Lys Leu Gln Thr Leu Met Asp Val
 805          810          815
Gly Leu Thr Tyr Ile Arg Leu Gly Gln Ser Ala Thr Thr Leu Ser Gly
 820          825          830
Gly Glu Ala Gln Arg Val Lys Leu Ala Arg Glu Leu Ser Lys Arg Gly
 835          840          845
Thr Gly Gln Thr Leu Tyr Ile Leu Asp Glu Pro Thr Thr Gly Leu His
 850          855          860
Phe Ala Asp Ile Gln Gln Leu Leu Asp Val Leu His Gln Leu Arg Asp
865          870          875
Gln Gly Asn Thr Ile Val Val Ile Glu His Asn Leu Asp Val Ile Lys
 885          890          895
Thr Ala Asp Trp Ile Val Asp Leu Gly Pro Glu Gly Gly Ser Gly Gly
 900          905          910
Gly Glu Ile Leu Val Ser Gly Thr Pro Glu Thr Val Ala Glu Cys Glu
 915          920          925
Ala Ser His Thr Ala Arg Phe Leu Lys Pro Leu Leu
 930          935          940

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<210> 9515

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 9515

```

Arg Phe Arg Asp Gly Phe Gly Phe Gly Leu Ala Thr Ser Gly His Glu
 1          5          10          15
Val Asn Ala Val Ala Ala Leu Tyr Val His Gly Asp Gln Arg Ala Gly
 20          25          30
Asn Leu Phe Arg Asp Thr Glu Leu Ile Pro Ala Val Val His Leu Phe
 35          40          45
Pro Glu Phe Arg Val Phe Gln Ile Gly Phe Ala Val Arg Gly Val Arg
 50          55          60
Phe Phe Ala Ala Pro Glu Thr Gly Ala Gly Glu Glu Asn Gly Ile Val
65          70          75          80
Asn Ile Glu Ala His Gly His Arg Arg Ala Thr Arg Gln Ala Val Phe
 85          90          95
Asn Leu Cys His
100

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<210> 9516

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9516

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Pro Gly Asp Leu Ile Ile Thr Leu Thr Arg Phe Ser Leu Phe Val Glu

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1          5          10          15
Gly Phe Val Ser Cys His Ser Glu Trp Ser Tyr Arg Asp Lys Glu Trp
20          25          30
Val Glu Arg Leu Pro His Ser Gly Gly Ser Met Ala Thr Arg Ile Glu
35          40          45
Phe His Lys His Gly Gly Pro Asp Val Leu Lys Ala Val Glu Phe Thr
50          55          60
Pro Ala Ala Pro Gly Glu Asn Glu Ile Gln Val Glu Asn Lys Ala Ile
65          70          75          80
Gly Ile Asn Tyr Ile Asp Thr Tyr Ile Arg Gly Gly Leu Tyr Pro Pro
85          90          95
Pro Ser Met Pro Ser Gly Leu Gly Thr Glu Ala Ala Gly Ile Val Ser
100          105          110
Lys Val Gly Ser Ala Val Lys His Ile Lys Glu Gly Asp Arg Val Val
115          120          125
Tyr Ala Gln Ser Ala Leu Gly Ala Tyr Ser Ser Ile His Asn Val Pro
130          135          140
Ala Glu Lys Ala Ala Leu Leu Pro Asn Ala Ile Gly Phe Glu Gln Ala
145          150          155          160
Ala Ala Ser Phe Leu Lys Gly Leu Thr Val Tyr Tyr Leu Leu Arg Lys
165          170          175
Thr Tyr Glu Ile Lys Pro Asp Glu Gln Phe Leu Phe His Ala Ala Ala
180          185          190
Gly Gly Val Gly Leu Ile Ala Cys Gln Trp Ala Lys Ala Leu Gly Ala
195          200          205
Lys Leu Ile Gly Thr Thr Gly Ser Ala Gln Lys Ala Gln Arg Ala Leu
210          215          220
Asp Ala Gly Ala Trp Gln Val Ile Asn Tyr Arg Glu Glu Ser Ile Val
225          230          235          240
Glu Arg Leu Lys Glu Ile Thr Gly Gly Lys Lys Val Arg Val Val Tyr
245          250          255
Asp Ser Val Gly Lys Asp Thr Trp Glu Ser Ser Leu Asp Cys Leu Gln
260          265          270
Arg Arg Gly Leu Met Val Ser Phe Gly Asn Ala Ser Gly Ala Val Thr
275          280          285
Gly Val Asn Leu Gly Ile Leu Asn Gln Lys Gly Ser Leu Tyr Val Thr
290          295          300
Arg Pro Ser Leu Gln Gly Tyr Ile Thr Asn Arg Glu Glu Leu Glu Glu
305          310          315          320
Ala Ser Asn Glu Leu Phe Ser Leu Ile Ala Ser Gly Val Ile Lys Val
325          330          335
Asp Val Ala Glu Ala Gln Lys Tyr Pro Leu Thr Asp Ala Gln Arg Ala
340          345          350
His Glu Val Leu Glu Ser Arg Ala Thr Gln Gly Ser Ser Leu Leu Ile
355          360          365
Pro
370

```

<210> 9517

<211> 834

<212> PRT

<213> Enterobacter cloacae

<400> 9517

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Arg Val Thr Thr Glu Ile Leu Arg Ala Phe Cys Tyr Pro Cys Ala Ala
1          5          10          15
Ile Ala Leu Leu Thr Arg Gly Phe Thr Ser Phe Met Ser Gly Trp Pro
20          25          30
Arg Ile Tyr Tyr Lys Leu Leu Asn Leu Pro Leu Ser Val Leu Val Lys
35          40          45
Ser Lys Ser Ile Pro Ala Glu Pro Ala Leu Glu Leu Gly Leu Asp Thr

```

50	55	60
Ser Arg Pro Ile Met Tyr Val Leu Pro Tyr Asn Ser Lys Ala Asp Leu		
65	70	75
Leu Thr Leu Arg Ala Gln Cys Leu Ala His Asp Leu Pro Asp Pro Leu		80
	85	90
Glu Pro Leu Glu Val Asp Gly Thr Leu Leu Pro Arg Tyr Val Phe Ile		95
	100	105
His Gly Gly Pro Arg Val Phe Thr Tyr Tyr Thr Pro Lys Glu Glu Ser		110
	115	120
Ile Lys Leu Phe His Asp Tyr Leu Asp Leu His Arg Ser Asn Pro Asp		125
	130	135
Leu Asp Val Gln Met Val Pro Val Ser Val Met Phe Gly Arg Arg Pro		140
	145	150
Gly Arg Glu Lys Gly Glu Glu Asn Pro Pro Leu Arg Met Leu Asn Gly		155
	165	170
Ile Gln Lys Phe Phe Ala Val Ser Trp Leu Gly Arg Asp Ser Phe Val		175
	180	185
Arg Phe Ser Pro Ser Val Ser Leu Arg Arg Met Ala Asp Glu His Gly		190
	195	200
Thr Asp Lys Ile Ile Ala Gln Lys Leu Ala Arg Val Ala Arg Met His		205
	210	215
Phe Ala Arg Gln Arg Leu Ala Ala Val Gly Pro Arg Leu Pro Ala Arg		220
	225	230
Gln Asp Leu Phe Asn Lys Leu Leu Ala Ser Lys Ala Ile Ala Arg Ala		235
	245	250
Val Glu Asp Glu Ala Arg Ser Lys Lys Ile Ser His Glu Lys Ala Gln		255
	260	265
Gln Asn Ala Ile Ala Leu Met Glu Glu Ile Ala Ala Asn Phe Ser Tyr		270
	275	280
Glu Met Ile Arg Leu Ser Asp Arg Ile Leu Gly Phe Thr Trp Asn Arg		285
	290	295
Leu Tyr Gln Gly Ile Asn Val His Asn Ala Glu Arg Val Arg Gln Leu		300
	305	310
Ala His Asp Gly His Glu Ile Val Tyr Val Pro Cys His Arg Ser His		315
	325	330
Met Asp Tyr Leu Leu Leu Ser Tyr Val Leu Tyr His Gln Gly Leu Val		335
	340	345
Pro Pro His Ile Ala Ala Gly Ile Asn Leu Asn Phe Trp Pro Ala Gly		350
	355	360
Pro Ile Phe Arg Arg Leu Gly Ala Phe Phe Ile Arg Arg Thr Phe Lys		365
	370	375
Gly Asn Lys Leu Tyr Ser Thr Val Phe Arg Glu Tyr Leu Gly Glu Leu		380
	385	390
Phe Ser Arg Gly Tyr Ser Val Glu Tyr Phe Val Glu Gly Gly Arg Ser		395
	405	410
Arg Thr Gly Arg Leu Leu Asp Pro Lys Thr Gly Thr Leu Ser Met Thr		415
	420	425
Ile Gln Ala Met Leu Arg Gly Gly Thr Arg Pro Ile Thr Leu Val Pro		430
	435	440
Ile Tyr Ile Gly Tyr Glu His Val Met Glu Val Gly Thr Tyr Ala Lys		445
	450	455
Glu Leu Arg Gly Ala Thr Lys Glu Lys Glu Ser Leu Pro Gln Met Leu		460
	465	470
Arg Gly Leu Ser Lys Leu Arg Asn Leu Gly Gln Gly Tyr Val Asn Phe		475
	485	490
Gly Glu Pro Leu Pro Leu Met Thr Tyr Leu Asn His His Val Pro Glu		495
	500	505
Trp Arg Glu Ser Ile Asp Pro Ile Glu Ala Val Arg Pro Ala Trp Leu		510
	515	520
Thr Pro Thr Val Asn Gly Ile Ala Ser Glu Leu Met Val Arg Ile Asn		525
	530	535
		540

Asn Ala Gly Ala Ala Asn Ala Met Asn Leu Cys Cys Thr Ala Leu Leu
 545 550 555 560
 Ala Ser Arg Gln Arg Ser Leu Thr Arg Glu Gln Leu Thr Glu Gln Ile
 565 570 575
 Asp Cys Tyr Leu Asp Ile Met Arg Asn Val Pro Tyr Ser Val Asp Ser
 580 585 590
 Thr Val Pro Ser Ala Thr Ala Ser Glu Leu Ile Asp His Ala Leu Gln
 595 600 605
 Met Asn Lys Phe Glu Val Glu Lys Asp Thr Ile Gly Asp Ile Ile Ile
 610 615 620
 Leu Pro Arg Glu Gln Ala Val Leu Met Thr Tyr Tyr Arg Asn Asn Ile
 625 630 635 640
 Thr His Met Leu Met Leu Pro Ser Leu Met Ala Ala Ile Ile Thr Gln
 645 650 655
 His Arg Arg Ile Ser Arg Gln Glu Leu Leu Arg His Ile Gln Ala Ile
 660 665 670
 Tyr Pro Met Leu Lys Ala Glu Leu Phe Leu Arg Trp Ser Lys Asp Glu
 675 680 685
 Leu Ala Ala Glu Leu Asp Lys Met Thr Ala Glu Met His Arg Gln Gly
 690 695 700
 Leu Ile Thr Ile Ser Asp Glu Leu His Ile Asn Pro Ser Arg Ser
 705 710 715 720
 Arg Thr Leu Gln Leu Ala Ser Gly Ala Arg Glu Thr Leu Gln Arg
 725 730 735
 Tyr Ala Ile Thr Phe Trp Leu Leu Ser Ala Asn Pro Ser Ile Asn Arg
 740 745 750
 Gly Thr Leu Glu Lys Glu Ser Arg Thr Leu Ala Gln Arg Leu Ser Val
 755 760 765
 Leu His Gly Ile Asn Ala Pro Glu Phe Phe Asp Lys Ala Val Phe Ser
 770 775 780
 Ser Leu Val Leu Thr Leu Arg Asp Glu Gly Tyr Ile Ser Asp Thr Gly
 785 790 795 800
 Asp Ala Glu Pro Glu Glu Thr Met Lys Val Tyr Gln Met Leu Ala Glu
 805 810 815
 Leu Ile Thr Ala Asp Val Arg Leu Thr Ile Glu Ser Ser Thr Gln Gly
 820 825 830
 Glu

<210> 9518

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 9518

Arg Lys Asn Pro Met Asp Val Ile Lys Lys Lys His Trp Trp Gln Ser
 1 5 10 15
 Asp Ala Leu Lys Trp Ser Val Ile Gly Leu Leu Cys Leu Leu Val Gly
 20 25 30
 Tyr Leu Val Val Leu Met Tyr Val Gln Gly Glu Tyr Leu Phe Ala Ile
 35 40 45
 Met Thr Leu Ile Leu Ser Ser Val Gly Leu Tyr Ile Phe Ala Asn Arg
 50 55 60
 Lys Ala Tyr Ala Trp Arg Tyr Val Tyr Pro Gly Val Ala Gly Met Gly
 65 70 75 80
 Leu Phe Val Leu Phe Pro Leu Ile Cys Thr Ile Ala Ile Ala Phe Thr
 85 90 95
 Asn Tyr Ser Ser Thr Asn Gln Leu Ala Gln Glu Arg Ala Thr Gln Val
 100 105 110
 Leu Leu Asp Arg Ser Tyr Gln Ala Gly Lys Thr Phe Asn Phe Gly Leu
 115 120 125

Tyr Pro Ala Gly Asp Glu Trp Lys Leu Ala Leu Thr Asp Gly Glu Ser
 130 135 140
 Gly Lys Thr Tyr Leu Ser Asp Ala Phe Lys Phe Gly Gly Glu Gln Lys
 145 150 155 160
 Leu Thr Leu Lys Glu Ala Ala Ala Leu Pro Glu Gly Glu Arg Ala Asn
 165 170 175
 Leu Arg Ile Ile Thr Gln Asn Arg Gln Ala Leu Thr Gln Leu Thr Ala
 180 185 190
 Val Leu Pro Asp Glu Ser Lys Val Ile Met Ser Ser Leu Arg Gln Phe
 195 200 205
 Ser Gly Thr Gln Pro Leu Tyr Thr Leu Ala Asp Asp Gly Thr Leu Thr
 210 215 220
 Asn Asn Gln Ser Gly Val Lys Tyr Arg Pro Asn Asn Asp Ile Gly Phe
 225 230 235 240
 Tyr Gln Ser Val Asn Ala Asp Gly Ser Trp Gly Asp Asp Lys Leu Ser
 245 250 255
 Pro Gly Tyr Thr Val Thr Ile Gly Trp Asp Asn Phe Thr Arg Val Phe
 260 265 270
 Thr Asp Glu Gly Ile Gln Lys Pro Phe Phe Ala Ile Phe Val Trp Thr
 275 280 285
 Val Val Phe Ser Val Leu Thr Val Ile Leu Thr Val Ala Val Gly Met
 290 295 300
 Val Leu Ala Cys Leu Val Gln Trp Glu Ser Leu Lys Gly Lys Ala Ile
 305 310 315 320
 Tyr Arg Val Leu Leu Ile Leu Pro Tyr Ala Val Pro Ser Phe Ile Ser
 325 330 335
 Ile Leu Ile Phe Lys Gly Leu Phe Asn Gln Ser Phe Gly Glu Ile Asn
 340 345 350
 Met Met Leu Ser Ala Leu Phe Gly Ile Lys Pro Ala Trp Phe Ser Asp
 355 360 365
 Pro Thr Thr Ala Arg Ser Met Ile Ile Ile Val Asn Thr Trp Leu Gly
 370 375 380
 Tyr Pro Tyr Met Met Ile Leu Cys Met Gly Leu Leu Lys Ala Ile Pro
 385 390 395 400
 Asp Asp Leu Tyr Glu Ala Ser Ala Met Asp Gly Ala Gly Pro Phe Gln
 405 410 415
 Asn Phe Phe Lys Ile Thr Leu Pro Leu Leu Ile Lys Pro Leu Thr Pro
 420 425 430
 Leu Met Ile Ala Ser Phe Ala Phe Asn Phe Asn Asn Phe Val Leu Ile
 435 440 445
 Gln Leu Leu Thr Asn Gly Gly Pro Asp Arg Leu Gly Thr Thr Thr Pro
 450 455 460
 Ala Gly Tyr Thr Asp Leu Leu Val Ser Tyr Thr Tyr Arg Ile Ala Phe
 465 470 475 480
 Glu Gly Gly Gly Gly Gln Asp Phe Gly Leu Ala Ala Ala Ile Ala Thr
 485 490 495
 Leu Ile Phe Leu Leu Val Gly Ala Leu Ala Ile Val Asn Leu Lys Ala
 500 505 510
 Thr Arg Met Lys Phe Asp
 515

<210> 9519

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9519

Gly Ala Ala Ala Thr Gly Gln Asp Phe Leu Arg Pro Asp Ala Leu Thr
 1 5 10 15
 Pro Ala Leu Ser His Arg Glu Arg Glu Ile Ile Ser Ser Glu Tyr Leu
 20 25 30

His His Ser Cys Lys Arg Leu Arg His Ala Leu Asp Val Ala Gly Ile
 35 40 45
 Gln Thr Arg His Ala His Thr Ala Ala Gly Asp Gln Val Asp Thr Glu
 50 55 60
 Leu Phe Thr Gln Ala Ile Asp Leu Arg Cys Ala Gln Ser Gly Val Ala
 65 70 75 80
 Glu His Pro Ala Leu Leu Glu Lys Ile Ile Lys Val Met Pro Arg His
 85 90 95
 Gly Leu Phe Gln Asp Val Asn Gln Leu Leu Thr His Arg Gln Asp Ala
 100 105 110
 Leu Thr His Arg Phe His Phe Arg Lys Pro Gly Gly Phe Gln Ser Phe
 115 120 125
 Val Thr Glu Asn Cys Arg His His Leu Arg Thr Lys Val Arg Arg Ala
 130 135 140
 Gly Val Asp Thr Ala Asp Arg Arg Phe Gln Leu Ala Glu Tyr Ala Ser
 145 150 155 160
 Arg Gly Phe Gly Val Phe Thr His His Gly Gln Thr Ala Asn Ala Leu
 165 170 175
 Ala Val Gln Gly Glu Asp Phe
 180

<210> 9520

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 9520

Glu Gly Val Ala Asp Gln Ser Gly Lys Pro Arg Ala Gly Asn Arg Ala
 1 5 10 15
 Asn Gly Val Gly Val Phe Phe His Ala Arg Ala Lys Ala Leu Ile Gly
 20 25 30
 Asp Val Glu Glu Arg Asp Gln Val Thr Arg Leu Gln Tyr Leu Asp His
 35 40 45
 Arg Ile Pro Leu Gly Ile Gly Glu Val Arg Thr Arg Arg Val Met Ala
 50 55 60
 Ala Arg Met Gln Gln Tyr Asp Ala Ala Leu Arg Gln Gly Val Gln Phe
 65 70 75 80
 Phe Gln Gln Arg Ile Asn Ala His Ala Val Arg Phe Ala Val Glu Pro
 85 90 95
 Arg Ile Ser Phe Asn Leu Lys Ala Arg Ala Leu Glu Asp Arg Asn Val
 100 105 110
 Val Phe Pro Arg Arg Val Ala Asp Pro His Ala Gly Ile Arg Glu Val
 115 120 125
 Leu Phe Gln Glu Ile Cys Ala Tyr Leu Gln Arg Thr Arg Ala Thr Gln
 130 135 140
 Arg Leu Asp Ser Arg Tyr Ala Leu Leu Arg Glu His Arg Val Val Arg
 145 150 155 160
 Thr Lys Gln Gln Arg Arg Asp Ser Val Ala Val Gly Val
 165 170

<210> 9521

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9521

Ser Glu Ser Phe His Pro Leu Pro His Pro Arg Cys Pro Met Asp Lys
 1 5 10 15
 Ser Thr Lys Glu Leu Leu Ala Gln Ala Glu Lys Leu Cys Ala Gln Arg
 20 25 30
 Asn Val Arg Leu Thr Pro Gln Arg Leu Glu Val Leu Arg Leu Met Ser

[illegible]

<213> Enterobacter cloacae

[illegible]

<213> Enterobacter cloacae

Cys 1	Arg	Tyr	Pro	Ser 5	Leu	Pro	Asp	Thr	Ala 10	Asp	Thr	Gly	Ile	Met 15	Lys
Lys	Thr	Tyr	Leu	Tyr	Ser	Met	Leu	Ala	Leu	Cys	Val	Ser	Ala	Ala	Cys
			20					25					30		
His	Ala	Glu	Thr	Tyr	Pro	Ala	Pro	Ile	Gly	Pro	Ser	Gln	Ser	Asp	Phe
		35					40					45			
Gly	Gly	Val	Gly	Leu	Leu	Gln	Thr	Pro	Thr	Ala	Arg	Met	Ala	Arg	Glu
	50					55					60				
Gly	Glu	Ile	Ser	Leu	Asn	Tyr	Arg	Asp	Asn	Asp	Gln	Tyr	Arg	Tyr	Tyr
65				70					75						80
Ser	Ala	Ser	Val	Gln	Leu	Phe	Pro	Trp	Leu	Glu	Thr	Thr	Leu	Arg	Tyr
			85						90					95	
Thr	Asp	Val	Arg	Thr	Lys	Gln	Tyr	Ser	Ser	Val	Asp	Ala	Phe	Ser	Gly
			100					105					110		
Asp	Gln	Thr	Tyr	Lys	Asp	Lys	Ala	Phe	Asp	Val	Lys	Leu	Arg	Leu	Trp
		115					120					125			
Glu	Glu	Ser	Tyr	Trp	Met	Pro	Gln	Val	Ser	Val	Gly	Ala	Lys	Asp	Ile
	130					135					140				

Gly	Gly	Thr	Gly	Leu	Phe	Asp	Ala	Glu	Tyr	Ile	Val	Ala	Ser	Lys	Ala
145					150					155					160
Trp	Gly	Pro	Phe	Asp	Phe	Ser	Leu	Gly	Leu	Gly	Trp	Gly	Tyr	Leu	Gly
				165					170					175	
Thr	Ser	Gly	Asn	Val	Lys	Asn	Pro	Phe	Cys	Ser	Tyr	Ser	Asp	Lys	Tyr
			180					185					190		
Cys	Tyr	Arg	Asp	Asn	Ser	Tyr	Gln	Lys	Ala	Gly	Ser	Ile	Asn	Gly	Asp
		195					200					205			
Gln	Met	Phe	His	Gly	Pro	Ala	Ser	Leu	Phe	Gly	Gly	Val	Glu	Tyr	Gln
	210					215					220				
Thr	Pro	Trp	Gln	Pro	Leu	Arg	Leu	Lys	Leu	Glu	Tyr	Glu	Gly	Asn	Asn
225					230					235					240
Tyr	Ser	Glu	Asp	Phe	Ala	Gly	Lys	Ile	Glu	Gln	Lys	Ser	Lys	Phe	Asn
				245					250					255	
Val	Gly	Ala	Ile	Tyr	Arg	Val	Thr	Asp	Trp	Ala	Asp	Val	Asn	Leu	Ser
			260					265					270		
Tyr	Glu	Arg	Gly	Asn	Thr	Leu	Met	Phe	Gly	Phe	Thr	Leu	Arg	Thr	Asn
		275					280					285			
Phe	Asn	Asp	Met	Arg	Pro	His	Tyr	Asn	Asp	Asn	Pro	Arg	Pro	Lys	Tyr
	290					295					300				
Gln	Pro	Glu	Pro	Gln	Asp	Ala	Ile	Ile	Gln	His	Ser	Val	Val	Ala	Asn
305					310					315					320
Gln	Leu	Thr	Leu	Leu	Lys	Tyr	Asn	Ala	Gly	Leu	Ala	Asp	Pro	Lys	Ile
			325						330					335	
Gln	Thr	Lys	Gly	Asp	Thr	Leu	Tyr	Val	Thr	Gly	Glu	Gln	Val	Lys	Tyr
			340					345					350		
Arg	Asp	Ser	Arg	Glu	Gly	Ile	Glu	Arg	Ala	Asn	Arg	Ile	Val	Met	Asn
		355					360					365			
Asp	Leu	Pro	Glu	Gly	Ile	Arg	Thr	Ile	Arg	Val	Thr	Glu	Asn	Arg	Leu
	370					375					380				
Asn	Leu	Pro	Gln	Val	Thr	Thr	Glu	Thr	Asp	Val	Ala	Ser	Leu	Lys	Arg
385					390					395					400
His	Leu	Glu	Gly	Glu	Pro	Leu	Gly	His	Glu	Thr	Glu	Leu	Val	Gln	Lys
			405						410					415	
Arg	Val	Glu	Pro	Val	Val	Pro	Glu	Thr	Thr	Glu	Gln	Gly	Trp	Tyr	Ile
			420					425					430		
Asp	Lys	Ser	Arg	Phe	Asp	Phe	His	Ile	Asp	Pro	Val	Leu	Asn	Gln	Ser
		435					440					445			
Val	Gly	Gly	Pro	Glu	Asn	Phe	Tyr	Met	Tyr	Gln	Leu	Gly	Ala	Met	Ala
	450					455					460				
Thr	Ala	Asp	Leu	Trp	Val	Thr	Asp	His	Leu	Leu	Thr	Thr	Gly	Ser	Leu
465					470					475					480
Phe	Gly	Asn	Ile	Thr	Asn	Asn	Tyr	Asp	Lys	Phe	Lys	Tyr	Thr	Asn	Pro
			485						490					495	
Pro	Asn	Asp	Ser	Lys	Leu	Pro	Arg	Val	Arg	Thr	Arg	Val	Arg	Glu	Tyr
			500					505					510		
Val	Gln	Asn	Asp	Ile	Tyr	Val	Asn	Asn	Leu	Gln	Ala	Asn	Tyr	Phe	Gln
		515					520					525			
Tyr	Phe	Gly	Asn	Gly	Phe	Tyr	Gly	Gln	Val	Tyr	Gly	Gly	Tyr	Leu	Glu
	530					535					540				
Thr	Met	Phe	Gly	Gly	Ala	Gly	Ala	Glu	Val	Leu	Tyr	Arg	Pro	Val	Asp
545					550					555					560
Ser	Asn	Trp	Ala	Phe	Gly	Val	Asp	Ala	Asn	Tyr	Val	Lys	Gln	Arg	Asp
			565						570					575	
Trp	Arg	Ser	Ala	Gln	Asp	Met	Met	Lys	Phe	Thr	Asp	Tyr	Ser	Val	Lys
			580					585					590		
Thr	Gly	His	Leu	Thr	Ala	Tyr	Trp	Thr	Pro	Ser	Phe	Ala	Gln	Asp	Val
		595					600					605			
Leu	Val	Lys	Ala	Ser	Val	Gly	Gln	Tyr	Leu	Ala	Gly	Asp	Lys	Gly	Gly
	610					615					620				
Thr	Leu	Asp	Ile	Ser	Lys	His	Phe	Asp	Ser	Gly	Val	Val	Val	Gly	Gly

625					630					635				640
Tyr	Ala	Thr	Ile	Thr	Asn	Val	Ser	Pro	Asp	Glu	Tyr	Gly	Glu	Gly Asp
				645					650					655
Phe	Thr	Lys	Gly	Val	Tyr	Val	Ser	Ile	Pro	Leu	Asp	Leu	Phe	Ser Ser
			660					665						670
Gly	Pro	Thr	Arg	Ser	Arg	Ala	Ala	Val	Gly	Trp	Thr	Pro	Leu	Thr Arg
		675				680						685		
Asp	Gly	Gly	Gln	Gln	Leu	Gly	Arg	Lys	Phe	Gln	Leu	Tyr	Asp	Met Thr
	690					695					700			
Ser	Asp	Lys	Asn	Ile	Asn	Phe	Arg							
705					710									

<210> 9524

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9524

Ile	Pro	Val	Thr	Phe	Leu	Arg	Tyr	Thr	Gly	Thr	Ser	Pro	Trp	Arg	Met
1				5					10					15	
Arg	Cys	Cys	Met	Thr	Ser	Leu	Thr	Arg	Pro	Arg	Val	Glu	Phe	Ile	Ser
			20					25					30		
Thr	Ile	Leu	Gln	Thr	Val	Leu	Asn	Leu	Gly	Leu	Leu	Ser	Leu	Gly	Leu
		35					40					45			
Ile	Leu	Val	Val	Phe	Leu	Gly	Lys	Glu	Thr	Val	His	Leu	Ala	Asp	Val
	50					55					60				
Leu	Phe	Ala	Pro	Glu	Gln	Thr	Ser	Lys	Tyr	Ala	Leu	Val	Glu	Gly	Leu
65					70					75					80
Val	Val	Tyr	Phe	Leu	Tyr	Phe	Glu	Phe	Ile	Ala	Leu	Ile	Val	Lys	Tyr
			85						90					95	
Phe	Gln	Ser	Gly	Phe	His	Phe	Pro	Leu	Arg	Tyr	Phe	Val	Tyr	Ile	Gly
			100					105					110		
Ile	Thr	Ala	Ile	Val	Arg	Leu	Ile	Ile	Val	Asp	His	Lys	Ser	Pro	Leu
	115						120					125			
Asp	Val	Leu	Ile	Tyr	Ser	Ala	Ala	Ile	Leu	Leu	Leu	Val	Ile	Thr	Leu
	130					135						140			
Trp	Leu	Cys	Asn	Ser	Lys	Arg	Leu	Lys	Arg	Glu					
145					150					155					

<210> 9525

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9525

Ile	Leu	Phe	Val	Arg	Pro	His	Phe	Val	Asn	Leu	Arg	Tyr	Asn	Ala	Phe
1				5					10					15	
Thr	Leu	Cys	Ile	Gly	Glu	Ser	Gly	Met	Ser	His	Pro	Ala	Leu	Thr	Gln
			20					25					30		
Leu	Arg	Ala	Leu	Arg	Tyr	Phe	Asp	His	Ile	Pro	Ala	Leu	Asp	Pro	Glu
		35					40					45			
Gln	Leu	Asp	Trp	Leu	Leu	Leu	Glu	Asp	Ser	Met	Thr	Lys	Arg	Phe	Glu
	50					55					60				
Gln	Gln	Gly	Lys	Thr	Val	Thr	Val	Thr	Met	Ile	Gln	Glu	Gly	Phe	Val
65					70					75					80
Ser	Pro	Ala	Glu	Ile	Ala	Ser	Glu	Leu	Pro	Leu	Leu	Pro	Gln	Glu	Glu
			85						90					95	
Arg	Tyr	Trp	Leu	Arg	Glu	Ile	Leu	Leu	Cys	Ala	Asp	Gly	Glu	Pro	Trp
			100					105					110		
Leu	Ala	Gly	Arg	Thr	Val	Val	Pro	Glu	Ser	Thr	Leu	Ser	Gly	Pro	Glu
	115						120						125		

Leu Ala Leu Gln Arg Leu Gly Lys Thr Pro Leu Gly Arg Tyr Leu Phe
 130 135 140
 Thr Ser Ser Glu Leu Thr Arg Asp Phe Ile Glu Ile Gly Cys Asp Ala
 145 150 155 160
 Asp Leu Trp Gly Arg Arg Ser Arg Leu Arg Leu Ser Gly Lys Pro Leu
 165 170 175
 Ile Leu Thr Glu Leu Phe Leu Pro Ala Ser Pro Leu Tyr
 180 185 190

<210> 9526

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9526

Glu Gly Glu Lys Met Glu Trp Ser Leu Thr Gln Asn Lys Leu Leu Ala
 1 5 10 15
 Tyr His Arg Leu Met Arg Thr Asp Lys Pro Ile Gly Ala Leu Leu Leu
 20 25 30
 Leu Trp Pro Thr Leu Trp Ala Leu Trp Val Ala Thr Pro Gly Val Pro
 35 40 45
 Pro Leu Trp Ile Leu Ala Val Phe Val Ala Gly Val Trp Leu Met Arg
 50 55 60
 Ala Ala Gly Cys Val Val Asn Asp Tyr Ala Asp Arg Lys Phe Asp Gly
 65 70 75 80
 His Val Lys Arg Thr Ala Asn Arg Pro Leu Pro Ser Gly Gln Val Thr
 85 90 95
 Gly Lys Glu Ala Arg Ile Leu Phe Val Val Leu Val Leu Leu Ser Phe
 100 105 110
 Met Leu Val Leu Thr Leu Asn Thr Met Thr Ile Leu Leu Ser Val Ala
 115 120 125
 Ala Leu Ala Leu Ala Trp Val Tyr Pro Phe Met Lys Arg Tyr Thr His
 130 135 140
 Leu Pro Gln Val Val Leu Gly Ala Ala Phe Gly Trp Ser Ile Pro Met
 145 150 155 160
 Ala Phe Ala Ala Val Ser Glu Ser Val Pro Leu Ser Cys Trp Leu Met
 165 170 175
 Phe Leu Ala Asn Ile Leu Trp Ala Val Ala Tyr Asp Thr Gln Tyr Ala
 180 185 190
 Met Val Asp Arg Asp Asp Asp Leu Lys Ile Gly Ile Lys Ser Thr Ala
 195 200 205
 Ile Leu Phe Gly Arg His Asp Lys Leu Ile Ile Gly Ile Leu Gln Val
 210 215 220
 Ala Val Leu Ala Leu Met Val Ala Ile Gly Arg Leu Asn Gly Leu Asn
 225 230 235 240
 Trp Glu Phe Tyr Trp Ser Val Leu Val Ala Gly Leu Leu Phe Ala Tyr
 245 250 255
 Gln Gln Lys Leu Ile Ala Lys Arg Glu Arg Glu Ala Cys Phe Lys Ala
 260 265 270
 Phe Leu Asn Asn Asn Tyr Val Gly Leu Val Leu Phe Leu Gly Leu Ala
 275 280 285
 Met Ser Tyr Trp Ser
 290

<210> 9527

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9527

Lys Val Leu Leu Met Ala Asn Asn Thr Thr Gly Leu Thr Arg Ile Ile

1		5		10		15									
Lys	Ala	Ala	Gly	Tyr	Ser	Trp	Lys	Gly	Phe	Arg	Ala	Ala	Trp	Val	Asn
		20						25					30		
Glu	Ala	Ala	Phe	Arg	Gln	Glu	Ala	Val	Ala	Ala	Ile	Val	Ala	Val	Val
		35						40				45			
Ile	Ala	Cys	Phe	Leu	Asp	Val	Asp	Ala	Ile	Thr	Arg	Val	Leu	Leu	Ile
		50					55				60				
Gly	Ser	Val	Phe	Leu	Val	Met	Ile	Val	Glu	Ile	Leu	Asn	Ser	Ala	Ile
65					70					75					80
Glu	Ala	Val	Val	Asp	Arg	Ile	Gly	Ser	Glu	Phe	His	Glu	Leu	Ser	Gly
				85					90					95	
Arg	Ala	Lys	Asp	Met	Gly	Ser	Ala	Ala	Val	Leu	Leu	Ala	Ile	Ile	Thr
			100					105					110		
Ala	Ala	Ile	Thr	Trp	Val	Thr	Leu	Leu	Trp	Ser	His	Phe	Arg		
		115					120					125			

<210> 9528

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9528

Leu	Tyr	Ile	His	Pro	Gly	Gly	Gly	Met	Lys	Ala	Leu	Thr	Thr	Arg	Gln
1				5					10					15	
Gln	Glu	Val	Phe	Asp	Leu	Ile	Arg	Asp	His	Ile	Gly	Gln	Thr	Gly	Met
			20					25					30		
Pro	Pro	Thr	Arg	Ala	Glu	Ile	Ala	Gln	Arg	Leu	Gly	Phe	Arg	Ser	Pro
		35					40					45			
Asn	Ala	Ala	Glu	Glu	His	Leu	Lys	Ala	Leu	Ala	Arg	Lys	Gly	Val	Ile
		50				55				60					
Glu	Ile	Val	Ser	Gly	Ala	Ser	Arg	Gly	Ile	Arg	Leu	Leu	Val	Glu	Glu
65				70					75						80
Glu	Ser	Gly	Ile	Pro	Leu	Val	Gly	Arg	Val	Ala	Ala	Gly	Glu	Pro	Leu
				85				90					95		
Leu	Ala	Gln	Gln	His	Ile	Glu	Gly	His	Tyr	Gln	Val	Asp	Pro	Gly	Met
		100					105					110			
Phe	Lys	Pro	Ser	Ala	Asp	Phe	Leu	Leu	Arg	Val	Ser	Gly	Met	Ser	Met
		115					120					125			
Lys	Asp	Ile	Gly	Ile	Leu	Asp	Gly	Asp	Leu	Leu	Ala	Val	His	Lys	Thr
	130					135					140				
Gln	Asp	Val	Arg	Asn	Gly	Gln	Val	Val	Val	Ala	Arg	Ile	Asp	Asp	Glu
145				150					155						160
Val	Thr	Val	Lys	Arg	Leu	Lys	Lys	Gln	Gly	Asn	Thr	Val	Gln	Leu	Leu
				165				170					175		
Pro	Glu	Asn	Asn	Glu	Phe	Ser	Pro	Ile	Val	Val	Asp	Leu	Arg	Glu	Gln
		180					185					190			
Ser	Phe	Ser	Ile	Glu	Gly	Leu	Ala	Val	Gly	Val	Ile	Arg	Asn	Gly	Glu
		195					200					205			
Trp	Leu														
	210														

<210> 9529

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 9529

Phe	Leu	Tyr	Ser	Leu	Ala	Cys	Phe	Leu	Ile	Pro	Val	Ile	Ser	Met	Ala
1				5				10					15		
Leu	Leu	Thr	Ser	Ala	Asp	Lys	Ala	Leu	Trp	Arg	Leu	Ala	Leu	Pro	Met
			20					25					30		

Ile	Phe	Ser	Asn	Ile	Thr	Val	Pro	Leu	Leu	Gly	Leu	Val	Asp	Thr	Ala
		35					40					45			
Val	Ile	Gly	His	Leu	Asp	Ser	Pro	Ile	Tyr	Leu	Gly	Gly	Val	Ala	Ile
	50					55					60				
Gly	Ala	Thr	Ala	Thr	Ser	Phe	Leu	Ile	Met	Leu	Leu	Phe	Leu	Arg	
65					70					75				80	
Met	Ser	Thr	Thr	Gly	Leu	Thr	Ala	Gln	Ala	Tyr	Gly	Ala	Lys	Asp	Pro
				85				90						95	
Leu	Arg	Leu	Ala	Arg	Ala	Leu	Val	Gln	Pro	Leu	Ile	Leu	Ala	Phe	Gly
			100					105					110		
Ala	Gly	Ala	Leu	Ile	Val	Leu	Leu	Arg	Thr	Pro	Leu	Ile	Asp	Phe	Ala
		115						120				125			
Leu	His	Ile	Val	Gly	Gly	Ser	Asp	Ala	Val	Leu	Glu	Gln	Ala	Arg	Arg
	130					135					140				
Phe	Leu	Glu	Ile	Arg	Trp	Leu	Ser	Ala	Pro	Ala	Ser	Leu	Ala	Asn	Leu
145					150					155					160
Val	Leu	Leu	Gly	Trp	Leu	Leu	Gly	Val	Gln	Tyr	Ala	Arg	Ala	Pro	Val
			165						170					175	
Ile	Leu	Leu	Val	Val	Gly	Asn	Leu	Leu	Asn	Ile	Met	Leu	Asp	Leu	Trp
			180					185					190		
Leu	Val	Met	Gly	Leu	His	Met	Asn	Val	Arg	Gly	Ala	Ala	Leu	Ala	Thr
		195					200					205			
Ala	Ile	Ala	Glu	Tyr	Gly	Thr	Leu	Leu	Ile	Gly	Leu	Gly	Met	Val	Trp
	210					215					220				
Arg	Val	Leu	Ala	Met	Arg	Gly	Ile	Thr	Leu	Asp	Leu	Leu	Lys	Ser	Ala
225					230					235					240
Trp	Arg	Gly	Asn	Ile	Arg	Lys	Leu	Leu	Ala	Leu	Asn	Arg	Asp	Ile	Met
			245						250					255	
Leu	Arg	Ser	Leu	Leu	Leu	Gln	Leu	Cys	Phe	Gly	Ala	Leu	Thr	Val	Phe
		260						265					270		
Gly	Ala	Arg	Leu	Gly	Pro	Glu	Ile	Val	Ala	Val	Asn	Ala	Val	Leu	Met
		275					280					285			
Thr	Leu	Leu	Thr	Phe	Thr	Ala	Tyr	Ala	Leu	Asp	Gly	Phe	Ala	Tyr	Ala
	290					295					300				
Val	Glu	Ala	His	Ser	Gly	Gln	Ala	Tyr	Gly	Ala	Arg	Glu	Ser	Gly	Gln
305					310					315					320
Leu	Arg	Glu	Val	Trp	Arg	Ala	Ala	Cys	Arg	Gln	Ala	Gly	Leu	Val	Ala
			325						330					335	
Leu	Ala	Phe	Ala	Leu	Val	Tyr	Ala	Cys	Phe	Gly	Gly	His	Ile	Val	Ala
		340						345					350		
Leu	Leu	Thr	Ser	Leu	Pro	Ala	Leu	Arg	Glu	Leu	Ala	Asp	Arg	Tyr	Ile
		355					360					365			
Leu	Trp	Gln	Val	Val	Leu	Pro	Val	Val	Gly	Val	Trp	Cys	Tyr	Leu	Leu
	370					375					380				
Asp	Gly	Met	Phe	Ile	Gly	Ala	Thr	Arg	Gly	Ala	Glu	Met	Arg	Asn	Ser
385					390					395					400
Met	Ala	Val	Ala	Ala	Ala	Gly	Phe	Gly	Leu	Thr	Leu	Leu	Thr	Leu	Pro
			405						410					415	
Tyr	Leu	Gly	Asn	His	Gly	Leu	Trp	Leu	Ala	Leu	Ala	Val	Phe	Leu	Ser
			420					425					430		
Leu	Arg	Gly	Leu	Ser	Leu	Ala	Val	Ile	Trp	His	Arg	His	Trp	Arg	Asn
		435					440					445			
Asn	Thr	Trp	Phe	Pro	Ala	Pro	His	Asp	Ile	Ser					
	450					455						460			

<210> 9530

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9530

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Asn Phe Ala Met Ser Ser Glu Phe Gln Thr Val Phe Pro Ala His Arg
1      5      10      15
Phe Ser Ile Ala Pro Met Leu Asp Trp Thr Asp Arg His Cys Arg Tyr
20
Phe Leu Arg Gln Leu Ser Arg His Thr Leu Leu Tyr Thr Glu Met Val
35      40      45
Thr Thr Gly Ala Ile Ile His Gly Lys Gly Asp Tyr Leu Ala Tyr Ser
50      55      60
Glu Glu Glu His Pro Val Ala Leu Gln Leu Gly Gly Ser Asp Pro Ala
65      70      75      80
Ala Leu Ala Gln Cys Ala Lys Leu Ala Glu Glu Arg Gly Tyr Asp Glu
85      90      95
Ile Asn Leu Asn Val Gly Cys Pro Ser Asp Arg Val Gln Asn Gly Met
100      105      110
Phe Gly Ala Cys Leu Met Gly Asn Ala His Leu Val Ala Asp Cys Ile
115      120      125
Lys Ala Met Arg Asp Val Val Ser Ile Pro Val Thr Val Lys Thr Arg
130      135      140
Ile Gly Ile Asp Asp Gln Asp Ser Tyr Glu Phe Leu Cys Asp Phe Ile
145      150      155      160
Asn Thr Val Ser Gly Lys Gly Glu Cys Glu Met Phe Ile Ile His Ala
165      170      175
Arg Lys Ala Trp Leu Ser Gly Leu Ser Pro Lys Glu Asn Arg Glu Ile
180      185      190
Pro Pro Leu Asp Tyr Pro Arg Val Tyr Gln Leu Lys Arg Asp Phe Pro
195      200      205
His Leu Thr Met Ser Ile Asn Gly Gly Ile Lys Ser Leu Asp Glu Ala
210      215      220
Lys Ala His Leu Glu His Met Asp Gly Val Met Val Gly Arg Glu Ala
225      230      235      240
Tyr Gln Asn Pro Gly Ile Leu Ala Thr Val Asp Arg Glu Ile Phe Gly
245      250      255
Val Glu Gly Ala Asp Thr Asp Pro Val Ala Val Val Arg Ala Met Tyr
260      265      270
Pro Tyr Ile Glu Arg Glu Leu Ser His Gly Thr Tyr Leu Gly His Ile
275      280      285
Thr Arg His Met Leu Gly Leu Phe Gln Gly Ile Pro Gly Ala Arg Gln
290      295      300
Trp Arg Arg Tyr Leu Ser Glu Asn Ala His Lys Ala Gly Ala Asp Ile
305      310      315      320
Glu Val Leu Glu His Ala Leu Arg Leu Val Ala Asp Lys Arg
325      330      335

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<210> 9531

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 9531

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Gly Ile Gln Met Gln Ala Ala Thr Val Val Ile Asn Arg Arg Ala Leu
1      5      10      15
Arg His Asn Leu Gln Arg Leu Arg Glu Leu Ala Pro Ala Ser Lys Leu
20      25      30
Val Ala Val Val Lys Ala Asn Ala Tyr Gly His Gly Leu Leu Glu Thr
35      40      45
Ala Arg Thr Leu Pro Asp Ala Asp Ala Phe Gly Val Ala Arg Leu Glu
50      55      60
Glu Ala Leu Arg Leu Arg Ala Gly Gly Ile Thr Gln Pro Ile Leu Leu
65      70      75      80
Leu Glu Gly Phe Phe Glu Ala Ser Asp Leu Pro Thr Ile Ala Asp Gln
85      90      95

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His Leu His Thr Ala Val His Asn Glu Glu Gln Leu Ala Ala Leu Glu
 100 105 110
 Thr Ala Glu Leu Ser Glu Pro Val Thr Val Trp Met Lys Leu Asp Thr
 115 120 125
 Gly Met His Arg Leu Gly Val Arg Pro Glu Ser Ala Glu Ala Phe Tyr
 130 135 140
 Gln Arg Leu Cys Gln Cys Lys Asn Val Arg Gln Pro Val Asn Ile Val
 145 150 155 160
 Ser His Phe Ala Arg Ala Asp Glu Pro Glu Cys Gly Ala Thr Glu Gln
 165 170 175
 Gln Leu Asp Ile Phe Asn Thr Phe Cys Glu Gly Lys Pro Gly Met Arg
 180 185 190
 Ser Ile Ala Ala Ser Gly Gly Ile Leu Leu Trp Pro Gln Ser His Phe
 195 200 205
 Asp Trp Ala Arg Pro Gly Ile Ile Leu Tyr Gly Val Ser Pro Leu Glu
 210 215 220
 Asn Lys Pro Trp Gly Pro Asp Phe Gly Phe Lys Pro Val Met Ser Leu
 225 230 235 240
 Val Ser Lys Leu Ile Ala Val Arg Glu His Lys Ala Gly Glu Pro Val
 245 250 255
 Gly Tyr Gly Gly Thr Trp Ile Ser Glu Arg Asp Thr Arg Leu Gly Val
 260 265 270
 Val Ala Met Gly Tyr Gly Asp Gly Tyr Pro Arg Ala Ala Pro Thr Gly
 275 280 285
 Thr Pro Val Leu Val Asn Gly Arg Glu Val Lys Ile Val Gly Arg Val
 290 295 300
 Ala Met Asp Met Ile Cys Val Asp Leu Gly Pro Asp Ala Gln Asp Lys
 305 310 315 320
 Ala Gly Asp Asp Ala Val Met Trp Gly Glu Gly Leu Pro Val Glu Arg
 325 330 335
 Ile Ala Glu Ile Thr Lys Val Ser Ala Tyr Glu Leu Ile Thr Arg Leu
 340 345 350
 Thr Ser Arg Val Ala Met Lys Tyr Val Asp
 355 360

<210> 9532

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9532

Lys Asp Ser Pro Phe Ile Met Glu Gln His Met Trp Tyr Gln Gln Thr
 1 5 10 15
 Leu Thr Leu Ser Ala Lys Pro Arg Gly Phe His Leu Val Thr Asp Glu
 20 25 30
 Val Ile Gly Gln Ile Arg Asp Leu Ser Arg Val Lys Thr Gly Leu Leu
 35 40 45
 His Leu Leu Leu Gln His Thr Ser Ala Ser Leu Thr Leu Asn Glu Asn
 50 55 60
 Cys Asp Pro Thr Val Arg Ser Asp Met Glu Arg His Phe Leu Lys Thr
 65 70 75 80
 Val Pro Asp Asn Ala Pro Tyr Glu His Asp Tyr Glu Gly Ala Asp Asp
 85 90 95
 Met Pro Ser His Ile Lys Ser Ser Leu Leu Gly Val Ser Leu Met Leu
 100 105 110
 Pro Val His Asn Gly Arg Leu Gln Leu Gly Thr Trp Gln Gly Ile Trp
 115 120 125
 Leu Gly Glu His Arg Ile His Gly Gly Ser Arg Lys Ile Ile Ala Thr
 130 135 140
 Leu Gln Gly Glu
 145

<210> 9533
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 9533
 Arg Arg Cys Pro Ser Ala Tyr Lys Val Ser Lys Ala Ser Glu Asp Leu
 1 5 10 15
 Pro Asp Pro Glu Ser Pro Val Thr Thr Met Ser Leu Ser Arg Gly Ile
 20 25 30
 Met Arg Leu Ile Phe Leu Arg Leu Trp Val Arg Ala Pro Arg Thr Ser
 35 40 45
 Ile Leu Ser Ile His Leu Ser Arg Leu Glu His Gly Leu Pro Asp Leu
 50 55 60
 Phe Glu Gly Gln Thr Ala Val Arg Asn Gly
 65 70 75

<210> 9534
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 9534
 Arg Gly Phe Met Glu Lys Arg Leu Pro Arg Ile Lys Ala Leu Leu Thr
 1 5 10 15
 Pro Gly Glu Val Ala Lys Arg Ser Gly Val Ala Val Ser Ala Leu His
 20 25 30
 Phe Tyr Glu Ser Lys Gly Leu Ile Lys Ser Ile Arg Asn Ala Gly Asn
 35 40 45
 Gln Arg Arg Tyr Thr Arg Asp Val Leu Arg Tyr Val Ala Ile Ile Lys
 50 55 60
 Ile Ala Gln Arg Ile Gly Ile Pro Leu Ala Thr Ile Gly Asp Ala Phe
 65 70 75 80
 Gly Val Leu Pro Glu Gly His Ser Leu Ser Ala Lys Glu Trp Lys Gln
 85 90 95
 Leu Ser Ser Gln Trp Arg Glu Glu Leu Asp Arg Arg Ile His Thr Leu
 100 105 110
 Val Ala Leu Arg Asp Glu Leu Asp Gly Cys Ile Gly Cys Gly Cys Leu
 115 120 125
 Ser Arg Ser Asp Cys Pro Leu Arg Asn Pro Gly Asp Arg Leu Gly Glu
 130 135 140
 Gln Gly Thr Gly Ala Arg Leu Leu Glu Glu Asp
 145 150 155

<210> 9535
 <211> 598
 <212> PRT
 <213> Enterobacter cloacae

<400> 9535
 Leu Phe Met Arg Lys Arg Val Ala Lys Ala Ala Arg Phe Tyr Phe Gln
 1 5 10 15
 Asp Ser Ser Cys Cys Leu Leu Arg Tyr Ser Gly Glu Asp Arg Ile Arg
 20 25 30
 Gly Thr Thr Pro Gln Val Trp Leu Ile Arg Asn Thr Ala Asn Arg Glu
 35 40 45
 Arg Met Glu Ile Phe Phe Thr Ile Leu Ile Met Thr Leu Val Val Ser
 50 55 60
 Leu Ser Gly Val Val Thr Arg Val Leu Pro Phe Gln Val Pro Leu Pro
 65 70 75 80

Leu	Met	Gln	Ile	Ala	Ile	Gly	Ala	Leu	Leu	Ala	Trp	Pro	Thr	Phe	Gly
				85					90					95	
Leu	His	Val	Glu	Phe	Asp	Pro	Glu	Leu	Phe	Leu	Val	Leu	Phe	Ile	Pro
			100					105					110		
Pro	Leu	Leu	Phe	Ala	Asp	Gly	Trp	Lys	Thr	Pro	Thr	Arg	Glu	Phe	Leu
		115					120					125			
Glu	His	Gly	Arg	Glu	Ile	Phe	Gly	Leu	Ala	Leu	Ala	Leu	Val	Val	Val
	130						135				140				
Thr	Val	Val	Gly	Ile	Gly	Phe	Leu	Ile	Tyr	Trp	Ala	Val	Pro	Gly	Ile
145					150					155					160
Pro	Leu	Ile	Pro	Ala	Phe	Ala	Leu	Ala	Ala	Val	Leu	Ser	Pro	Thr	Asp
			165					170						175	
Ala	Val	Ala	Leu	Ser	Gly	Ile	Val	Gly	Glu	Gly	Arg	Ile	Pro	Lys	Lys
			180					185					190		
Ile	Met	Gly	Ile	Leu	Gln	Gly	Glu	Ala	Leu	Met	Asn	Asp	Ala	Ser	Gly
		195					200					205			
Leu	Val	Ala	Leu	Lys	Phe	Ala	Val	Ala	Val	Ala	Met	Gly	Thr	Met	Val
	210						215				220				
Phe	Thr	Val	Gly	Gly	Ala	Thr	Leu	Glu	Phe	Phe	Lys	Val	Ala	Ile	Gly
225					230					235					240
Gly	Ile	Leu	Ala	Gly	Phe	Val	Val	Ser	Trp	Leu	Tyr	Gly	Arg	Ser	Leu
				245					250					255	
Arg	Phe	Leu	Ser	Arg	Trp	Gly	Gly	Asp	Glu	Pro	Ala	Thr	Gln	Ile	Val
			260					265					270		
Leu	Leu	Phe	Leu	Leu	Pro	Phe	Ala	Ser	Tyr	Leu	Ile	Ala	Glu	His	Ile
		275					280					285			
Gly	Val	Ser	Gly	Ile	Leu	Ala	Ala	Val	Ala	Ala	Gly	Met	Thr	Ile	Thr
	290						295				300				
Arg	Ser	Gly	Val	Met	Arg	Arg	Ala	Pro	Leu	Ala	Met	Arg	Leu	Arg	Ala
305					310					315					320
Asn	Ser	Thr	Trp	Ala	Met	Leu	Glu	Phe	Val	Phe	Asn	Gly	Met	Val	Phe
				325					330					335	
Leu	Leu	Leu	Gly	Leu	Gln	Leu	Pro	Gly	Ile	Met	Glu	Ser	Ser	Leu	Ile
			340					345					350		
Ala	Ala	Glu	Ala	Asp	Pro	Asn	Val	Glu	Val	Trp	Met	Leu	Phe	Thr	Asp
		355					360					365			
Ile	Val	Leu	Ile	Tyr	Leu	Ala	Leu	Met	Leu	Val	Arg	Phe	Gly	Trp	Leu
	370					375					380				
Trp	Thr	Met	Lys	Lys	Phe	Ser	Val	Arg	Phe	Leu	Thr	Lys	Lys	Pro	Met
385					390					395					400
Glu	Phe	Gly	Ser	Trp	Thr	Thr	Arg	Glu	Leu	Leu	Ile	Ala	Ser	Phe	Ala
			405						410					415	
Gly	Val	Arg	Gly	Ala	Ile	Thr	Leu	Ala	Gly	Val	Leu	Ser	Ile	Pro	Leu
			420					425					430		
Leu	Leu	Pro	Thr	Gly	Asp	Val	Phe	Pro	Ala	Arg	Tyr	Glu	Leu	Val	Phe
		435					440					445			
Leu	Ala	Ala	Gly	Val	Ile	Leu	Phe	Ser	Leu	Phe	Val	Gly	Val	Ile	Met
	450					455					460				
Leu	Pro	Ile	Leu	Leu	Gln	His	Ile	Asp	Ala	Gly	Asp	Ser	Ser	Gln	Gln
465					470					475					480
His	Lys	Glu	Glu	Arg	Ile	Ala	Arg	Ala	Ala	Thr	Ala	Glu	Val	Ala	Ile
				485					490					495	
Val	Ala	Ile	Glu	Lys	Met	Glu	Glu	Arg	Leu	Ala	Ala	Asp	Ala	Glu	Glu
			500					505					510		
Asn	Ile	Asp	Asn	Gln	Leu	Leu	Lys	Glu	Val	Ser	Ser	Arg	Val	Ile	Gly
	515						520					525			
Asn	Leu	Arg	Arg	Arg	Ala	Asp	Gly	Arg	Asn	Asp	Val	Glu	Ser	Ser	Leu
	530					535					540				
Gln	Glu	Glu	Asn	Leu	Glu	Arg	Arg	Phe	Arg	Leu	Ala	Ala	Leu	Arg	Ser
545					550					555					560
Glu	Arg	Ala	Glu	Leu	Tyr	His	Leu	Arg	Ala	Thr	Arg	Gln	Ile	Ser	Asn

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<210> 9536
<211> 252
<212> PRT
<213> Enterobacter cloacae
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<210> 9537
<211> 420
<212> PRT
<213> Enterobacter cloacae
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<400> 9537																
Ile	Thr	Asp	Asn	Asp	Thr	Phe	Cys	Ser	Glu	Met	Pro	Cys	Ser	Leu	Arg	
1				5					10					15		
Leu	Ala	Gln	His	Ala	Val	Gln	Met	Ile	Leu	Ile	Arg	Arg	Val	Lys	Lys	
			20				25						30			
Ser	His	Lys	Pro	Thr	Gln	His	Asn	Ser	Tyr	Pro	Phe	Ser	Met	Ser	Pro	
		35				40						45				
Tyr	Ser	Cys	Ser	Phe	Asp	Gly	Ala	Glu	Ile	Ser	Leu	Arg	Lys	Ser	Val	
	50					55					60					
Ser	Met	Lys	Asn	Leu	Lys	Val	Ser	Leu	Ala	Trp	Gln	Ile	Leu	Leu	Ala	
65					70					75					80	

Leu Val Leu Gly Ile Leu Leu Gly Ser Tyr Leu His Tyr His Ser Asp
 85 90 95
 Ser Arg Glu Trp Leu Ile Ala Asn Leu Leu Ser Pro Ala Gly Asp Ile
 100 105 110
 Phe Ile His Leu Ile Lys Met Ile Val Val Pro Ile Val Ile Ser Thr
 115 120 125
 Leu Val Val Gly Ile Ala Gly Val Gly Asp Ala Lys Gln Leu Gly Arg
 130 135 140
 Ile Gly Val Lys Thr Ile Leu Tyr Phe Glu Val Ile Thr Thr Val Ala
 145 150 155 160
 Ile Val Leu Gly Ile Thr Leu Ala Asn Val Phe Gln Pro Gly Ala Gly
 165 170 175
 Ile Asp Met Ser Gln Leu Ala Thr Val Asp Ile Ser Lys Tyr Gln Ser
 180 185 190
 Thr Thr Ala Asp Val Gln Ser His Ser His Gly Leu Met Gly Thr Ile
 195 200 205
 Leu Ser Leu Val Pro Thr Asn Ile Ile Ala Ser Met Ala Lys Gly Glu
 210 215 220
 Met Leu Pro Ile Ile Phe Phe Ser Val Leu Phe Gly Leu Gly Leu Ser
 225 230 235 240
 Ser Leu Pro Ala Thr His Arg Glu Pro Leu Val Thr Val Phe Arg Ser
 245 250 255
 Ile Ser Glu Thr Met Phe Lys Val Thr His Met Val Met Arg Tyr Ala
 260 265 270
 Pro Val Gly Val Phe Ala Leu Ile Ala Val Thr Val Ala Asn Phe Gly
 275 280 285
 Phe Ala Ser Leu Trp Pro Leu Ala Lys Leu Val Ile Leu Val His Phe
 290 295 300
 Ala Ile Leu Phe Phe Ala Leu Val Val Leu Gly Ile Val Ala Arg Leu
 305 310 315 320
 Cys Gly Leu Ser Ile Trp Ile Leu Ile Arg Ile Leu Lys Asp Glu Leu
 325 330 335
 Ile Leu Ala Tyr Ser Thr Ala Ser Ser Glu Ser Val Leu Pro Arg Ile
 340 345 350
 Ile Glu Lys Met Glu Ala Tyr Gly Ala Pro Ala Ser Ile Thr Ser Phe
 355 360 365
 Val Val Pro Thr Gly Tyr Ser Phe Asn Leu Asp Gly Ser Thr Leu Tyr
 370 375 380
 Gln Ser Ile Ala Ala Ile Phe Ile Ala Gln Leu Tyr Gly Ile Asp Leu
 385 390 395 400
 Ser Leu Trp Gln Glu Ile Val Leu Val Leu Thr Leu Met Val Thr Ser
 405 410 415
 Lys Gly Ile Ala
 420

<210> 9538

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 9538

Pro Leu Leu Gly Gly Arg Arg Gly Ala Asn Pro Pro Val Leu Thr Val
 1 5 10 15
 Ser Arg Cys Arg Phe Leu Pro Gly Glu Asp His Pro Asp Gln Gly Gly
 20 25 30
 Glu Ile Met Lys Met Phe Ile His Ile Ala Leu Leu Ala Ser Leu Ala
 35 40 45
 Ser Pro Leu Ala Trp Ser Ala Gly Thr Val Gln Val Tyr Thr Pro Asp
 50 55 60
 Ser Glu Lys Pro Lys Thr Leu Thr Asn Ala Arg His Leu Leu Asp Leu
 65 70 75 80

Val Gly Gln Pro Arg Leu Ala Lys Ser Trp Trp Thr Gly Ala Val Ile
85 90 95
Ser Glu Arg Gln Ala Thr Ile Val Ala Glu Gln Lys His Gln Ala Leu
100 105 110
Leu Ala Arg Leu Ser Gly Leu Ala Gln Gln Glu Asp Ala Asp Ala
115 120 125
Ala Ala Ile Thr Ser Leu Arg Gln Gln Leu Gln Ala Val Lys Val Thr
130 135 140
Gly Arg Gln Lys Val Asn Leu Asp Pro Asp Glu Val Arg Val Ala Glu
145 150 155 160
Asn Gly Asn Pro Ser Leu Glu Gly Asp Tyr Thr Leu Trp Leu Pro Ala
165 170 175
Gln Pro Ser Thr Val Thr Val Met Gly Leu Leu Ser Ser Pro Gly Lys
180 185 190
Lys Pro Phe Thr Pro Gly Arg Asp Val Ala Ser Tyr Leu Asp Glu Gln
195 200 205
Ser Leu Leu Ser Gly Ala Asp Lys Ser Tyr Ala Trp Val Val Tyr Pro
210 215 220
Asp Gly His Thr Gln Lys Ala Pro Val Ala Tyr Trp Asn Lys Arg His
225 230 235 240
Ile Glu Pro Met Pro Gly Ser Ile Ile Phe Val Gly Phe Ala Asp His
245 250 255
Phe Trp Thr Lys Ala Tyr Asp Gly Leu Asn Ala Asp Ile Leu Arg Ser
260 265 270
Leu Ile Gln Arg Ile Pro Glu
275 280

<210> 9539

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9539

Lys Met Val Lys Tyr Ala Thr Pro Cys Asn Thr Leu Arg Gly Val Leu
1 5 10 15
Leu Ser Glu Gln Gln Leu Ile Phe Gly Met Ile Leu Val Thr Ile Ala
20 25 30
Ala Ser Phe Gly Asn Ser Trp Glu Ser Thr Met Leu Glu Leu Leu Phe
35 40 45
Val Ile Gly Phe Phe Ile Met Leu Met Val Thr Gly Val Ser Leu Leu
50 55 60
Gly Ile Leu Ala Ala Leu Val Val Ala Thr Val Val Met Phe Val Gly
65 70 75 80
Gly Leu Phe Ala Leu Thr Ile Lys Leu Leu Pro Trp Leu Leu Leu Ala
85 90 95
Ile Ala Val Val Trp Ala Ile Arg Ala Ile Lys Ser Pro Lys Leu Pro
100 105 110
Ser Tyr Gln Arg Asn Asn Arg Phe Arg Tyr
115 120

<210> 9540

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 9540

Ser Gly Glu His Arg Val Phe Gln Lys Val Asp Ala Tyr Ala Gly Asp
1 5 10 15
Pro Ile Leu Ser Leu Met Glu Arg Phe Lys Glu Asp Pro Arg Ser Asp
20 25 30
Lys Val Asn Leu Ser Ile Gly Leu Tyr Tyr Asn Glu Asp Gly Ile Ile


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<210> 9541
<211> 183
<212> PRT
<213> Enterobacter cloacae
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<400> 9541															
Glu	Thr	Tyr	Ser	Gly	Asp	Thr	Asn	Met	Ala	Ser	Arg	Gly	Val	Asn	Lys
1				5					10					15	
Val	Ile	Leu	Val	Gly	Asn	Leu	Gly	Gln	Asp	Pro	Glu	Val	Arg	Tyr	Met
			20					25					30		
Pro	Ser	Gly	Gly	Ala	Val	Ala	Asn	Ile	Thr	Leu	Ala	Thr	Ser	Glu	Ser
		35					40					45			
Trp	Arg	Asp	Lys	Ala	Thr	Gly	Glu	Met	Lys	Glu	Gln	Thr	Glu	Trp	His

50	55	60
Arg Val Val Leu Phe Gly Lys Leu Ala Glu Val Ala Gly Glu Tyr Leu		
65	70	75
Arg Lys Gly Ser Gln Val Tyr Ile Glu Gly Gln Leu Arg Thr Arg Lys		80
	85	90
Trp Thr Asp Gln Ser Gly Gln Glu Lys Tyr Thr Thr Glu Val Val Val		95
	100	105
Asn Val Gly Gly Thr Met Gln Met Leu Gly Gly Arg Gln Gly Gly Gly		110
	115	120
Ala Pro Ala Gly Gly Gly Gln Gln Gln Gly Gly Trp Gly Gln Pro Gln		125
	130	135
Gln Pro Gln Gly Gly Asn Gln Phe Ser Gly Gly Ala Gln Ser Arg Pro		140
145	150	155
Gln Gln Gln Ser Ala Pro Ala Pro Ser Asn Glu Pro Pro Met Asp Phe		160
	165	170
Asp Asp Asp Ile Pro Phe		175
	180	

<210> 9542

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 9542

Phe Arg Gly Leu Ile Leu Leu Phe Arg Tyr Glu Leu Leu Arg Leu Leu		
1	5	10
Ser Arg Leu Met Thr Cys Glu Lys Ile Met Lys Glu Gln Arg Arg Glu		15
	20	25
Ile Ile Asn Asp Ser Met Gln Ala Leu His Ala Leu Ala Lys Leu Met		30
	35	40
Pro Gln Leu Asn Ala Gln Cys Ser Pro Val Glu Met Leu Glu Thr Ile		45
	50	55
Asn Ser Ala Leu Gly Ala Asn Leu Ser Trp Val Ser Val Glu Ser Ala		60
65	70	75
Asp Gly Pro Arg Val Val Cys Ala Gly Asp Val Thr Cys His Ala Phe		80
	85	90
Asn Val Ala Asp Phe Leu Ala Ser Thr Leu Leu Gln Arg His His Arg		95
	100	105
Ala Trp Arg Val Ile Tyr Trp Lys Ala His Ile Gly Arg Ala Val Phe		110
	115	120
Ser Pro Gln His Pro Gly Tyr Ala Arg Leu Gln Ser Gly Val Leu Cys		125
	130	135
Lys Leu Ser Ala His Gly Arg Gln Cys Ser Gly Tyr Phe Phe Leu Ala		140
145	150	155
Phe Asn Gly Lys Leu Thr Ser Leu Pro Ile Leu Lys Asn Ile Val Val		160
	165	170
Val Leu Val Glu Lys Leu Lys Asp Tyr Phe Asp Asp Ile Ile Val Arg		175
	180	185
Glu Lys Thr Ala Gln Glu Met Gln Arg Val Val Thr Gln Tyr Lys Thr		190
	195	200
Leu Phe Glu Arg Ala Pro Val Leu Met Asn Ala Phe Asp Arg His Asn		205
	210	215
Arg Cys Val Leu Trp Asn Ala Glu Cys Glu Lys Val Phe Gly Trp Ser		220
225	230	235
Met Thr Glu Ile Asp Glu His Pro Asp Pro Leu Ala Leu Phe Tyr Pro		240
	245	250
Asp Pro Glu Glu Arg Gln Arg Val Gln Glu Ser Val Arg Phe Ala Pro		255
	260	265
Leu Lys Asp Met Tyr Glu Trp His Pro Val Arg Lys Asp Gly Thr Gln		270
	275	280
Leu Thr Ile Leu Trp Ser Asn Ile Leu Leu Pro Asp Asn Ser Ile Leu		285

290	295	300
Asn Ile Gly Leu Asp	Ile Thr Glu Arg Lys Lys	Ala Glu Gln Gln Leu
305	310	315
Thr Val Lys Ala Thr	Thr Asp Asp Leu Thr Gly Cys	Leu Asn Arg Ser
	325	330
Thr Ile Leu Gln Gln	Leu Lys Met Ala Leu Ala	Ala Ser Ser Pro Gln
	340	345
Asp Val Ser Ser His	Phe Cys Leu Leu Met Phe	Asp Leu Asp Tyr Phe
	355	360
Lys Gln Ile Asn Asp	Arg Trp Gly His Gln Val	Gly Asp Ala Ala Leu
	370	375
Ile His Phe Cys Asp	Arg Ile Arg Glu Val Ser	Pro Ala Gly Ser Ala
385	390	395
Leu Gly Arg Val Gly	Gly Glu Glu Phe Val	Leu Leu Ala Arg Thr
	405	410
Asp Gly Met Ala Ala	Thr Leu Leu Ser Ser	Arg Leu Arg Ala Ala Leu
	420	425
Ile Ser Lys Pro Leu	Arg Val Gly Asp Lys	Thr Leu Val Leu Ser Phe
	435	440
Ser Ala Gly Val Val	Glu Val Cys Gln Gly	Gln Arg Asp Thr Ser Ala
	450	455
Ile Leu Met Arg Ala	Asp Lys Ala Leu Tyr	Asp Ala Lys Arg Thr Gly
465	470	475
Arg Gly Lys Thr Val	Leu Ala Ser Asp	Tyr Leu
	485	490

<210> 9543

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 9543

Pro Asn Phe Phe Arg	Glu Val Ala Gln Phe	Ser Ile Val Lys Lys Tyr
1	5	10
Glu Ser Ser Glu Asn	Ile Met Leu Thr Val	His His Leu Asn Gln Ser
	20	25
Arg Ser His Arg Val	Leu Trp Ala Leu Glu	Glu Leu Gly Leu Thr Tyr
	35	40
Asp Ile Val Arg Tyr	Gln Arg Glu Lys Thr	Met Leu Ala Pro Asp Ser
50	55	60
Leu Lys Lys Val His	Pro Leu Gly Lys Ser	Pro Val Leu Glu Asp Asn
65	70	75
Gly Leu Val Leu Ala	Glu Ser Gly Ala Ile	Met Glu Tyr Leu Gln Glu
	85	90
Thr Tyr Asp Ser Ala	Ser Arg Phe Lys Pro	Leu Asp Pro Ala His Lys
	100	105
Val Gln Tyr Arg Phe	Trp Leu His Tyr Ala	Glu Gly Ser Leu Met Pro
	115	120
Leu Leu Leu Met Lys	Leu Val Phe Asn Ser	Leu Gly Lys Pro Pro Val
	130	135
Pro Phe Gly Leu Arg	Thr Leu Gly Lys Ala	Leu Gly Gln Gly Val Gln
145	150	155
Lys Ala Tyr Leu Asn	Arg Gln Leu Glu Thr	His Ala Arg Phe Ile Asn
	165	170
Asp His Leu Ala Glu	Asn Ser Trp Phe Ala	Gly Asp Thr Leu Thr Met
	180	185
Ala Asp Ile Gln Met	Ser Phe Pro Leu Phe	Ala Leu Leu Ala Arg Gly
	195	200
Gly Ile Asp Asn Leu	Asp His Ile Ala Ala	Trp Lys Gln Arg Val Glu
	210	215
Ala Arg Pro Gly Trp	Gln Thr Thr Leu Ala	Lys Gly Gly Pro Leu Thr
	220	

240

<400> 9544

Arg 1	Leu	Ala	Gly	Ser 5	Gly	Val	Ser	Thr	Ser 10	Leu	Thr	Asp	Phe	Leu 15	Lys
Asn	Ser	Gln	Gly 20	Met	Phe	Ser	Met	Ser 25	Thr	Pro	Ser	Ala	Arg 30	Thr	Gly
Gly	Ser	Leu 35	Asp	Ala	Met	Phe	Lys 40	Ile	Ser	Ala	Arg	Gly 45	Ser	Thr	Val
Arg 50	Gln	Glu	Val	Val	Ala	Gly 55	Leu	Thr	Thr	Phe	Leu 60	Ala	Met	Val	Tyr
Ser 65	Val	Ile	Val	Val	Pro 70	Gly	Met	Leu	Gly	Lys 75	Ala	Gly	Phe	Pro	Pro 80
Ala	Ala	Val	Phe 85	Val	Ala	Thr	Cys	Leu	Val 90	Ala	Gly	Val	Gly	Ser 95	Ile
Val	Met	Gly 100	Leu	Trp	Ala	Asn	Leu	Pro 105	Leu	Ala	Ile	Gly	Cys 110	Ala	Ile
Ser	Leu	Thr 115	Ala	Phe	Thr	Ala	Phe 120	Ser	Leu	Val	Leu	Gly 125	Gln	Gln	Ile
Ser 130	Val	Pro	Val	Ala	Leu	Gly 135	Ala	Val	Phe	Leu	Met 140	Gly	Val	Leu	Phe
Thr 145	Val	Ile	Ser	Ala	Thr 150	Gly	Ile	Arg	Ser	Trp 155	Ile	Leu	Arg	Asn	Leu 160
Pro	Gln	Gly	Val 165	Ala	His	Gly	Thr	Gly	Ile 170	Gly	Ile	Gly	Leu	Phe 175	Leu
Leu	Leu	Ile 180	Ala	Asn	Gly	Val	Gly 185	Leu	Val	Ile	Lys	Asn 190	Pro	Leu	
Asp	Gly 195	Leu	Pro	Val	Ala	Leu	Gly 200	Asn	Phe	Ala	Ser	Phe 205	Pro	Val	Ile
Met 210	Ser	Leu	Val	Gly	Leu	Ala 215	Val	Ile	Ile	Gly	Leu 220	Glu	Lys	Leu	Lys
Val 225	Pro	Gly	Gly	Ile	Leu 230	Leu	Thr	Ile	Ile	Gly 235	Val	Ser	Ile	Val	Gly 240
Leu	Ile	Phe	Asp 245	Pro	Thr	Val	His	Phe	Ser 250	Gly	Ile	Phe	Ala 255	Met	Pro
Ser	Leu	Ser 260	Asp	Lys	Gly	Asn	Ser 265	Leu	Ile	Gly	Ser	Leu 270	Asp	Ile	
Met 275	Gly	Ala	Leu	Asn	Pro	Val	Ile 280	Leu	Pro	Ser	Val	Leu 285	Ala	Leu	Val
Met 290	Thr	Ala	Val	Phe	Asp	Ala 295	Thr	Gly	Thr	Ile	Arg 300	Ala	Val	Ala	Gly
Gln 305	Ala	Asn	Leu	Leu	Asp 310	Lys	Asp	Gly	Gln	Ile	Ile	Asp	Gly	Gly	Lys 320
Ala	Leu	Thr	Thr 325	Asp	Ser	Leu	Ser	Ser	Val 330	Phe	Ser	Gly	Leu	Val 335	Gly
Ala	Ala	Pro	Ala 340	Ala	Val	Tyr	Ile	Glu	Ser 345	Ala	Ala	Gly	Thr 350	Ala	Ala
Gly	Gly 355	Lys	Thr	Gly	Leu	Thr	Ala 360	Ile	Thr	Val	Gly	Val 365	Leu	Phe	Leu
Leu 370	Ile	Leu	Phe	Leu	Ser	Pro 375	Leu	Ser	Tyr	Leu	Val 380	Pro	Ala	Tyr	Ala
Thr 385	Ala	Pro	Ala	Leu	Met 390	Tyr	Val	Gly	Leu	Leu 395	Met	Leu	Ser	Asn	Val 400
Ala	Lys	Ile	Asp	Phe	Ala	Asp	Phe	Val	Asp	Ala	Met	Ser	Gly	Leu	Ile

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<210> 9545
<211> 631
<212> PRT
<213> Enterobacter cloacae
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His 1	Arg	Gly	Thr	Phe 5	Gln	Ala	Pro	Gly	Val 10	Lys	Thr	Thr	Gly	Pro 15	Tyr
Phe	Met	Leu	Leu 20	Val	Tyr	Pro	Leu	Phe 25	Asp	Gln	His	Phe	Ala 30	Thr	Pro
Glu	Gly	Arg 35	Asp	Ser	Ser	Tyr	Thr 40	Phe	Arg	Val	Phe	Ser 45	Pro	Ala	Phe
Asp	Ala 50	Asp	Gln	Gly	Asn 55	Gly	Ile	Lys	Thr	Ile	Thr 60	Ile	Phe	Ile	Cys
Arg 65	Arg	Tyr	Asn	Arg	Pro 70	Gln	Ser	Gln	Phe	Ser 75	Asn	Gln	Lys	Ser	Ile 80
Ala	Met	Lys	Asn 85	Ile	Asn	Pro	Thr	Gln	Thr 90	Ala	Ala	Trp	Gln	Ala 95	Leu
Gln	Lys	His	Phe 100	Asp	Glu	Met	Lys	Asp 105	Val	Thr	Ile	Ala	Asp 110	Leu	Phe
Ala	Lys	Asp 115	Ala	Asp	Arg	Phe	Ser 120	Lys	Phe	Ser	Ala	Thr 125	Phe	Asp	Asp
Leu	Met 130	Leu	Val	Asp	Phe	Ser	Lys 135	Asn	Arg	Ile	Thr 140	Glu	Glu	Thr	Leu
Ala 145	Lys	Leu	Gln	Asp 150	Leu	Ala	Lys	Glu	Thr	Glu 155	Leu	Ala	Asp	Ala	Ile 160
Lys	Ser	Met	Phe	Ser 165	Gly	Glu	Lys	Ile	Asn 170	Arg	Thr	Glu	Asp 175	Arg	Ala
Val	Leu	His	Val 180	Ala	Leu	Arg	Asn 185	Arg	Ser	Asn	Thr	Pro	Ile 190	Ile	Val
Asp	Gly	Lys 195	Asp	Val	Met	Pro	Glu 200	Val	Asn	Ala	Val	Leu 205	Glu	Lys	Met
Lys	Thr 210	Phe	Ser	Glu	Ala	Ile 215	Ile	Ser	Gly	Ser	Trp 220	Lys	Gly	Tyr	Thr
Gly 225	Lys	Ala	Ile	Thr	Asp 230	Val	Val	Asn	Ile	Gly 235	Ile	Gly	Gly	Ser	Asp 240
Leu	Gly	Pro	Phe	Met 245	Val	Thr	Glu	Ala	Leu 250	Arg	Pro	Tyr	Lys	Asn 255	His
Leu	Asn	Met	His 260	Phe	Val	Ser	Asn	Val 265	Asp	Gly	Thr	His	Ile 270	Ala	Glu
Val	Leu	Lys 275	Lys	Val	Asn	Pro	Glu 280	Thr	Thr	Leu	Phe	Leu 285	Val	Ala	Ser
Lys	Thr 290	Phe	Thr	Thr	Gln	Glu 295	Thr	Met	Thr	Asn	Ala 300	His	Ser	Ala	Arg
Asp 305	Trp	Phe	Leu	Lys	Thr 310	Ala	Gly	Asp	Glu	Lys	His 315	Val	Ala	Lys	His 320
Phe	Ala	Ala	Leu	Ser 325	Thr	Asn	Gly	Lys	Ala 330	Val	Gly	Glu	Phe	Gly 335	Ile
Asp	Thr	Ala	Asn 340	Met	Phe	Glu	Phe	Trp 345	Asp	Trp	Val	Gly	Gly 350	Arg	Tyr
Ser	Leu	Trp	Ser	Ala	Ile	Gly	Leu	Ser	Ile	Ile	Leu	Ser	Val	Gly	Phe

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<210> 9546
<211> 227
<212> PRT
<213> Enterobacter cloacae
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<400> 9546															
Pro	His	Phe	Gly	Val	Val	Ile	Ser	Pro	Leu	Arg	Arg	Arg	Val	Val	Lys
1				5					10					15	
Arg	Pro	Ala	Ile	Ile	Leu	Ile	Cys	Leu	Leu	Leu	Gln	Ala	Cys	Ser	Ala
		20					25						30		
Thr	Thr	Lys	Gly	Leu	Gly	His	Ser	Leu	Trp	Asp	Ser	Met	Phe	Gly	Thr
		35					40					45			
Pro	Gly	Val	His	Leu	Thr	Asp	Asp	Glu	Leu	Gln	Asn	Met	Pro	Tyr	Ala
	50					55					60				
Ser	Gln	Tyr	Met	Gln	Leu	Asn	Asp	Gly	Pro	Gln	Leu	Phe	Val	Val	Leu
65				70						75					80
Ala	Phe	Asp	Glu	Asn	Gly	Gln	Gln	Lys	Trp	Val	Thr	Gln	Asp	Gln	Ala
			85					90						95	
Thr	Ile	Val	Thr	Gln	His	Ser	Arg	Ile	Val	Lys	Thr	Leu	Leu	Gly	Gly
			100					105					110		
Asp	Asn	Leu	Leu	Glu	Val	Asn	Asn	Leu	Ala	Glu	Asp	Pro	Leu	Ile	Lys
		115					120					125			
Pro	Asn	Gln	Ile	Val	Asp	Gly	Ala	Ser	Trp	Thr	Arg	Thr	Met	Gly	Trp
	130					135					140				
Thr	Glu	His	Lys	Gln	Val	Arg	Tyr	Ala	Thr	Ala	Arg	Ser	Thr	Phe	Arg

145					150				155				160
Trp	Asp	Gly	Thr	Asp	Ser	Val	Lys	Val	Gly	Ser	Asp	Glu	Thr
				165					170				175
Arg	Val	Leu	Asp	Glu	Glu	Val	Thr	Thr	Asp	Gln	Ala	Thr	Trp
			180					185					190
Arg	Phe	Trp	Val	Asp	Glu	Glu	Gly	Gln	Ile	Arg	Gln	Ser	Leu
		195					200				205		Gln
Leu	Gly	Ala	Gly	Phe	Phe	Pro	Val	Lys	Thr	Thr	Leu	Ile	Lys
	210					215					220		Ala
Lys	Ser												Ala
225													

<210> 9547

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9547

Arg	Arg	Glu	Lys	Gly	Met	Ala	Ser	Val	Gln	Leu	Arg	Asn	Val	Thr	Lys
1				5					10					15	
Ala	Trp	Gly	Asp	Val	Val	Val	Ser	Lys	Asp	Ile	Asn	Leu	Asp	Ile	His
			20					25					30		
Glu	Gly	Glu	Phe	Val	Val	Phe	Val	Gly	Pro	Ser	Gly	Cys	Gly	Lys	Ser
		35					40					45			
Thr	Leu	Leu	Arg	Met	Ile	Ala	Gly	Leu	Glu	Thr	Ile	Thr	Arg	Gly	Asp
	50					55					60				
Leu	Phe	Ile	Gly	Asp	Thr	Arg	Met	Asn	Asp	Ile	Pro	Pro	Ala	Glu	Arg
	65			70					75					80	
Gly	Val	Gly	Met	Val	Phe	Gln	Ser	Tyr	Ala	Leu	Tyr	Pro	His	Leu	Ser
			85						90					95	
Val	Ala	Glu	Asn	Met	Ser	Phe	Gly	Leu	Lys	Leu	Ala	Gly	Ala	Lys	Lys
			100					105					110		
Glu	Thr	Ile	Asn	Gln	Arg	Val	Thr	Gln	Val	Ala	Glu	Val	Leu	Gln	Leu
		115					120					125			
Ala	His	Leu	Leu	Glu	Arg	Lys	Pro	Lys	Ala	Leu	Ser	Gly	Gly	Gln	Arg
	130					135					140				
Gln	Arg	Val	Ala	Ile	Gly	Arg	Thr	Leu	Val	Ala	Glu	Pro	Arg	Val	Phe
	145				150				155						160
Leu	Leu	Asp	Glu	Pro	Leu	Ser	Asn	Leu	Asp	Ala	Ala	Leu	Arg	Val	Gln
			165						170					175	
Met	Arg	Ile	Glu	Ile	Ser	Arg	Leu	His	Lys	Arg	Leu	Gly	Arg	Thr	Met
		180						185					190		
Ile	Tyr	Val	Thr	His	Asp	Gln	Val	Glu	Ala	Met	Thr	Leu	Ala	Asp	Lys
	195					200						205			
Ile	Val	Val	Leu	Asp	Ala	Gly	Arg	Val	Ala	Gln	Val	Gly	Lys	Pro	Leu
	210					215					220				
Glu	Leu	Tyr	His	Tyr	Pro	Ala	Asp	Arg	Phe	Val	Ala	Gly	Phe	Ile	Gly
	225				230				235						240
Ser	Pro	Lys	Met	Asn	Phe	Leu	Pro	Val	Lys	Val	Thr	Ala	Thr	Ala	Ile
			245						250					255	
Glu	Gln	Val	Gln	Val	Glu	Leu	Pro	Asn	Arg	Gln	Gln	Val	Trp	Leu	Pro
		260						265					270		
Val	Asp	Ser	Ala	Asn	Val	Gln	Val	Gly	Ala	Asn	Met	Ser	Leu	Gly	Ile
	275						280				285				
Arg	Pro	Glu	His	Leu	Leu	Pro	Ser	His	Ile	Ala	Asp	Val	Thr	Leu	Glu
	290					295					300				
Gly	Glu	Val	Gln	Val	Val	Glu	Gln	Leu	Gly	His	Glu	Thr	Gln	Ile	His
	305				310					315					320
Ile	Gln	Ile	Pro	Ala	Ile	Arg	Gln	Asn	Leu	Val	Tyr	Arg	Gln	Asn	Asp
			325						330					335	
Val	Val	Leu	Val	Glu	Glu	Gly	Ala	Thr	Phe	Ala	Ile	Gly	Leu	Pro	Pro

			340						345					350	
Glu	Arg	Cys	His	Leu	Phe	Arg	Glu	Asp	Gly	Thr	Ala	Cys	Arg	Arg	Leu
		355					360					365			
His	Lys	Glu	Pro	Gly	Val										
	370					375									

<210> 9548

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 9548

Ala	Phe	Gln	Leu	Gln	Arg	Lys	Ala	Met	Ile	Ser	Gly	Asp	Arg	Ile	Met
1			5						10					15	
Ile	Thr	Leu	Arg	Lys	Val	Pro	Leu	Ala	Val	Ala	Ile	Ala	Ala	Gly	Ile
		20					25					30			
Leu	Ser	Ala	Gln	Ala	Gly	Ala	Val	Asp	Phe	Lys	Gly	Tyr	Ala	Arg	Ser
		35					40					45			
Gly	Ile	Gly	Trp	Thr	Gly	Ser	Gly	Gly	Glu	Gln	Gln	Cys	Phe	Gln	Ala
	50					55					60				
Thr	Gly	Ala	Gln	Ser	Lys	Tyr	Arg	Leu	Gly	Asn	Glu	Cys	Glu	Thr	Tyr
65					70					75					80
Ala	Glu	Leu	Lys	Leu	Gly	Gln	Glu	Val	Trp	Lys	Glu	Gly	Asp	Lys	Ser
			85						90					95	
Phe	Tyr	Phe	Asp	Thr	Asn	Val	Ala	Tyr	Ser	Val	Ser	Gln	Gln	Asn	Asp
			100					105					110		
Trp	Glu	Ser	Thr	Ser	Pro	Ala	Phe	Arg	Glu	Ala	Asn	Val	Gln	Gly	Lys
		115					120					125			
Asn	Leu	Ile	Glu	Trp	Leu	Pro	Gly	Ser	Thr	Ile	Trp	Ala	Gly	Lys	Arg
	130					135					140				
Phe	Tyr	Gln	Arg	His	Asp	Val	His	Met	Ile	Asp	Phe	Tyr	Tyr	Trp	Asp
					150					155					160
Ile	Ser	Gly	Pro	Gly	Ala	Gly	Ile	Glu	Asn	Ile	Asp	Leu	Gly	Phe	Gly
			165						170					175	
Lys	Leu	Ser	Leu	Ala	Ala	Thr	Arg	Ser	Ser	Glu	Ser	Gly	Gly	Ser	Ala
			180					185					190		
Thr	Phe	Ala	Asp	Arg	Asp	Ala	Asn	Gly	Asp	Arg	Ile	Tyr	Asp	Asn	Val
		195					200					205			
Val	Pro	Asn	Asp	Val	Phe	Asp	Val	Arg	Leu	Ala	Gly	Leu	Glu	Thr	Asn
	210					215					220				
Pro	Gly	Gly	Thr	Leu	Glu	Leu	Gly	Val	Asp	Tyr	Gly	His	Thr	Asn	Ile
225					230					235					240
Pro	Asp	Asp	Tyr	Tyr	Leu	Gln	Pro	Gly	Ala	Ser	Lys	Asp	Gly	Trp	Leu
			245						250					255	
Phe	Thr	Ala	Glu	His	Thr	Gln	Ser	Met	Met	Lys	Gly	Phe	Asn	Lys	Phe
			260					265					270		
Val	Leu	Gln	Tyr	Gly	Thr	Asp	Ser	Met	Thr	Ser	Asn	Gly	Lys	Gly	Ile
		275					280					285			
Pro	Gln	Gly	Gly	Ser	Ile	Asp	Asn	Asp	Gly	Ser	Met	Trp	Arg	Val	Leu
	290					295					300				
Asp	His	Gly	Ala	Ile	Thr	Leu	Ala	Asp	Arg	Trp	Asp	Leu	Met	Tyr	Val
305					310					315					320
Gly	Met	Tyr	Gln	Asn	Ile	Asp	Arg	Asp	Asn	Asn	Asn	Gly	Thr	Glu	Trp
			325						330					335	
Trp	Thr	Val	Gly	Val	Arg	Pro	Met	Phe	Lys	Trp	Thr	Pro	Ile	Met	Ser
			340					345					350		
Thr	Leu	Leu	Glu	Val	Gly	Tyr	Asp	Asn	Val	Lys	Ser	Gln	Lys	Thr	Asp
		355					360					365			
Asp	Lys	Asn	Ser	Gln	Tyr	Lys	Ile	Thr	Leu	Ala	Gln	Gln	Trp	Gln	Ala
	370					375					380				
Gly	Asp	Ser	Ile	Trp	Ser	Arg	Pro	Ala	Ile	Arg	Val	Phe	Ala	Thr	Tyr

385					390					395				400
Ala	Lys	Trp	Asp	Glu	Lys	Trp	Gly	Tyr	Ala	Asn	Asn	Asp	Ser	Gly
				405					410					415
Gly	Tyr	Thr	Ser	Gly	Val	Ala	Tyr	Ser	Asp	Thr	Ser	Ala	Lys	Thr
			420					425					430	Phe
Ser	Arg	Gly	Asp	Asn	Asp	Glu	Trp	Thr	Phe	Gly	Ala	Gln	Met	Glu
		435					440					445		Ile
Trp	Trp													
	450													

<210> 9549

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9549

Gly	Ala	Ala	Arg	Tyr	Cys	Leu	Ala	Thr	Ala	Val	Leu	Thr	Leu	Ser	Glu
1				5					10					15	
Val	Ile	Thr	Met	Lys	Met	Lys	Lys	Ser	Leu	Val	Ala	Leu	Cys	Leu	Ser
			20					25					30		
Ala	Gly	Leu	Leu	Ala	Cys	Ala	Pro	Ala	Leu	Thr	Tyr	Ala	Asp	Val	Asn
			35				40					45			
Phe	Val	Pro	Gln	Asn	Thr	Ser	Ala	Ala	Pro	Ala	Ile	Pro	Ala	Ala	Ala
	50					55					60				
Leu	Gln	Gln	Leu	Val	Trp	Thr	Pro	Val	Asp	Gln	Ser	Lys	Thr	Gln	Thr
65					70				75					80	
Thr	Gln	Leu	Ala	Ala	Gly	Gly	Gln	Ser	Leu	Asn	Val	Pro	Gly	Ile	Ser
				85					90					95	
Gly	Pro	Val	Ala	Ala	Phe	Ser	Val	Pro	Ala	Asn	Ile	Gly	Glu	Leu	Thr
			100					105					110		
Leu	Thr	Leu	Thr	Ser	Glu	Val	Asn	Lys	Gln	Thr	Ser	Val	Phe	Ala	Pro
		115					120					125			
Asn	Val	Leu	Ile	Leu	Asp	Gln	Ser	Met	Thr	Pro	Ser	Ala	Phe	Phe	Pro
	130					135					140				
Ser	Asp	Tyr	Phe	Ser	Tyr	Gln	Glu	Pro	Gly	Val	Met	Ser	Ala	Asp	Arg
145					150					155					160
Leu	Glu	Gly	Val	Met	Arg	Leu	Thr	Pro	Ala	Leu	Gly	Gln	Gln	Lys	Ile
				165					170					175	
Tyr	Val	Leu	Val	Phe	Thr	Thr	Glu	Lys	Asp	Leu	Gln	Gln	Thr	Thr	Lys
			180					185					190		
Leu	Val	Asp	Pro	Ala	Lys	Ala	Tyr	Ala	Lys	Gly	Thr	Gly	Asn	Ala	Val
		195					200					205			
Pro	Asp	Ile	Pro	Asp	Pro	His	Ala	Arg	His	Thr	Thr	Asp	Gly	Leu	Ile
	210					215					220				
Lys	Leu	Lys	Val	Ser	Thr	Asn	Ser	Ala	Ser	Ser	Val	Leu	Val	Gly	Pro
225					230					235					240
Leu	Phe	Gly	Ser	Ser	Gly	Pro	Gly	Pro	Val	Thr	Val	Gly	Asn	Thr	Ala
				245					250					255	
Ala	Pro	Val	Tyr	Ala	Ala	Pro	Ala	Ala	Thr	Pro	Ala	Ala	Ala	Pro	Ala
			260					265					270		
Pro	Ala	Lys	Lys	Ala	Glu	Pro	Val	Leu	Asn	Asp	Thr	Glu	Thr	Tyr	Phe
		275					280					285			
Asn	Asn	Ala	Ile	Lys	Gln	Ala	Val	Lys	Asn	Gly	Asp	Val	Asp	Lys	Ala
	290					295					300				
Leu	Lys	Leu	Leu	Asp	Glu	Ala	Glu	Arg	Leu	Gly	Ser	Thr	Thr	Ala	Arg
305					310					315					320
Ser	Thr	Phe	Ile	Ser	Ser	Val	Lys	Gly	Lys	Gly					
				325					330						

<210> 9550

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 9550

His	Glu	Asp	Thr	Ile	Met	Asn	Lys	Asp	Glu	Ile	Gly	Gly	Asn	Trp	Lys
1				5					10					15	
Gln	Phe	Lys	Gly	Lys	Ala	Lys	Glu	Gln	Trp	Gly	Lys	Leu	Thr	Asp	Asp
			20					25					30		
Asp	Met	Thr	Val	Ile	Glu	Gly	Lys	Arg	Asp	Gln	Leu	Val	Gly	Lys	Ile
		35					40				45				
Gln	Glu	Arg	Tyr	Gly	Tyr	Glu	Lys	Asp	Gln	Ala	Glu	Asn	Glu	Val	Lys
	50					55					60				
Asp	Trp	Glu	Thr	Arg	Asn	Asp	Tyr	Arg	Trp						
65					70					75					

<210> 9551

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9551

Ser	Phe	Asp	Pro	Leu	Phe	Ile	Ser	Val	Thr	Pro	Phe	Thr	Met	Ala	Gly
1				5					10					15	
Asn	Lys	Pro	Phe	Asn	Lys	Gln	Thr	Glu	Pro	Arg	Glu	Arg	Asp	Tyr	Gln
			20					25					30		
Val	Ala	Gly	Leu	Lys	Val	Pro	Pro	His	Ser	Ile	Glu	Ala	Glu	Gln	Ser
		35					40				45				
Val	Leu	Gly	Gly	Leu	Met	Leu	Asp	Asn	Glu	Arg	Trp	Asp	Asp	Val	Ala
	50					55				60					
Glu	Arg	Val	Val	Ala	Glu	Asp	Phe	Tyr	Thr	Arg	Pro	His	Arg	His	Ile
65					70				75					80	
Phe	Thr	Glu	Met	Ala	Arg	Leu	Gln	Glu	Ser	Gly	Ser	Pro	Ile	Asp	Leu
			85					90						95	
Ile	Thr	Leu	Ala	Glu	Ser	Leu	Glu	Arg	Leu	Gly	Gln	Leu	Asp	Ser	Val
			100				105						110		
Gly	Gly	Phe	Ala	Tyr	Leu	Ala	Glu	Leu	Ser	Lys	Asn	Thr	Pro	Ser	Ala
		115					120					125			
Ala	Asn	Ile	Ser	Ala	Tyr	Ala	Asp	Ile	Val	Arg	Glu	Arg	Ala	Val	Val
	130					135					140				
Arg	Glu	Met	Ile	Ser	Val	Ala	Asn	Glu	Ile	Ala	Glu	Ala	Gly	Phe	Asp
145					150				155					160	
Pro	Gln	Gly	Arg	Thr	Ser	Glu	Asp	Leu	Leu	Asp	Leu	Ala	Glu	Ser	Arg
			165					170						175	
Val	Phe	Lys	Ile	Ala	Glu	Ser	Arg	Ala	Asn	Lys	Asp	Glu	Gly	Pro	Lys
			180					185					190		
Asn	Ile	Ala	Asp	Val	Leu	Asp	Ala	Thr	Val	Ala	Arg	Ile	Glu	Gln	Leu
	195						200					205			
Phe	Gln	Gln	Pro	His	Asp	Gly	Val	Thr	Gly	Val	Asn	Thr	Gly	Tyr	Asp
	210					215					220				
Asp	Leu	Asn	Lys	Lys	Thr	Ala	Gly	Leu	Gln	Pro	Ser	Asp	Leu	Ile	Ile
225					230				235					240	
Val	Ala	Ala	Arg	Pro	Ser	Met	Gly	Lys	Thr	Thr	Phe	Ala	Met	Asn	Leu
			245						250					255	
Val	Glu	Asn	Ala	Ala	Met	Leu	Gln	Asp	Lys	Pro	Val	Leu	Ile	Phe	Ser
			260					265					270		
Leu	Glu	Met	Pro	Ser	Glu	Gln	Ile	Met	Met	Arg	Ser	Leu	Ala	Ser	Leu
	275						280					285			
Ser	Arg	Val	Asp	Gln	Thr	Arg	Ile	Arg	Thr	Gly	Gln	Leu	Asp	Asp	Glu
	290					295					300				
Asp	Trp	Ala	Arg	Ile	Ser	Gly	Thr	Met	Gly	Ile	Leu	Leu	Glu	Lys	Arg
305					310					315					320

Asn Ile Tyr Ile Asp Asp Ser Ser Gly Leu Thr Pro Thr Glu Val Arg
 325 330 335
 Ser Arg Ala Arg Arg Ile Ala Arg Glu His Gly Gly Ile Gly Leu Ile
 340 345 350
 Met Ile Asp Tyr Leu Gln Leu Met Arg Val Pro Ser Leu Ser Asp Asn
 355 360 365
 Arg Thr Leu Glu Ile Ala Glu Ile Ser Arg Ser Leu Lys Ala Leu Ala
 370 375 380
 Lys Glu Leu His Val Pro Val Val Ala Leu Ser Gln Leu Asn Arg Ser
 385 390 395 400
 Leu Glu Gln Arg Ala Asp Lys Arg Pro Val Asn Ser Asp Leu Arg Glu
 405 410 415
 Ser Gly Ser Ile Glu Gln Asp Ala Asp Leu Ile Met Phe Ile Tyr Arg
 420 425 430
 Asp Glu Val Tyr His Glu Asn Ser Asp Leu Lys Gly Ile Ala Glu Ile
 435 440 445
 Ile Ile Gly Lys Gln Arg Asn Gly Pro Ile Gly Thr Val Arg Leu Thr
 450 455 460
 Phe Asn Gly Gln Trp Ser Arg Phe Asp Asn Tyr Ala Gly Pro Gln Tyr
 465 470 475 480
 Asp Asp Glu

<210> 9552

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 9552

Gln Thr Glu Tyr Ser Gly Glu Asn Met Arg Lys Ile Thr Leu Ala Leu
 1 5 10 15
 Ser Ala Ala Cys Leu Leu Phe Ser Leu Asn Ser Thr Val Val Ala Arg
 20 25 30
 Ala Ser Ala Pro Thr Pro Leu Tyr Thr Gly Thr Thr Ala Ala Ile Leu
 35 40 45
 Ala Glu Gln Ala Pro Ile His Trp Val Ser Val Ala Gln Ile Glu Asn
 50 55 60
 Ser Leu Thr Gly Arg Pro Pro Met Ala Val Gly Phe Asp Ile Asp Asp
 65 70 75 80
 Thr Val Leu Phe Ser Ser Pro Gly Phe Trp Arg Gly Lys Lys Thr Tyr
 85 90 95
 Ser Pro Asp Ser Glu Ala Tyr Leu Lys Asn Pro Glu Phe Trp Glu Lys
 100 105 110
 Met Asn Asn Gly Trp Asp Glu Phe Ser Ile Pro Lys Glu Val Ala Arg
 115 120 125
 Ala Leu Ile Ala Met His Val Lys Arg Gly Asp Ser Ile Tyr Phe Val
 130 135 140
 Thr Gly Arg Ser Gln Thr Lys Thr Glu Thr Val Ser Lys Thr Leu Gln
 145 150 155 160
 Asp Asp Phe Leu Ile Pro Ala Ala Ser Met Asn Pro Val Ile Phe Ala
 165 170 175
 Gly Asp Gln Glu Gly Gln Asn Thr Lys Thr Gln Trp Leu Glu Lys Lys
 180 185 190
 Asn Ile Lys Val Phe Tyr Gly Asp Ser Asp Asn Asp Ile Thr Ala Ala
 195 200 205
 His Asp Val Gly Ala Arg Gly Ile Arg Val Leu Arg Ala Ser Asn Ser
 210 215 220
 Thr Tyr Arg Pro Leu Pro Met Ala Gly Lys Phe Gly Glu Glu Val Ile
 225 230 235 240
 Val Asn Ser Glu Tyr
 245

<210> 9553
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

<400> 9553
 Asn Tyr Arg Asn Ala Thr Arg Gly Ile Lys Met Thr Ile Ser Glu Ile
 1 5 10 15
 Leu Gln Tyr Cys Met Ser Lys Pro Gly Ala Glu Gln Ser Val His Ser
 20 25 30
 Asp Trp Lys Ala Thr Gln Ile Lys Val Gly Asp Val Leu Phe Ala Met
 35 40 45
 Val Lys Glu Val Asp Ala Arg Pro Ala Ala Ser Leu Lys Thr Ser Pro
 50 55 60
 Glu Leu Ala Asp Leu Leu Arg Gln Gln His Asp Asp Val Arg Pro Ser
 65 70 75 80
 Lys His Leu Asn Lys Ala His Trp Ser Thr Val Phe Leu Asp Gly Ser
 85 90 95
 Leu Pro Asp Ser Gln Ile Tyr Tyr Leu Val Asp Ala Ser Tyr Gln Gln
 100 105 110
 Ala Val Glu Leu Leu Pro Glu Thr Ile Arg Gln Gln Leu Ser Val
 115 120 125

<210> 9554
 <211> 196
 <212> PRT
 <213> Enterobacter cloacae

<400> 9554
 His His Arg Arg Ala Ala Arg Gln Phe Gln Arg Arg Phe Lys Gly Phe
 1 5 10 15
 Arg Gln Thr Arg Arg Gln Ile Phe Thr Asp Leu Lys Pro Val Asn His
 20 25 30
 His Phe Asp Gly Val Phe Leu Leu Gln Leu Gln Leu Trp Arg Ile Gly
 35 40 45
 Gln Val Thr His Phe Ala Val Asp Thr Gly Ala Asp Ile Ala Leu Ala
 50 55 60
 Cys Gln Ile Phe Gln Arg Phe Ser Met Phe Ala Leu Thr Leu Phe Asn
 65 70 75 80
 Asp Arg Arg Gln Gln His Gln Ala Phe Ala Phe Arg Leu Arg Gln His
 85 90 95
 Val Ile His His Leu Ala Asp Gly Leu Gly Arg Gln Arg Asn Val Val
 100 105 110
 Ile Arg Ala Ala Arg Leu Ala His Ala Arg Ile Gln Gln Thr Gln Val
 115 120 125
 Val Met Asp Phe Gly Asn Gly Thr Asp Arg Gly Ser Arg Val Met Arg
 130 135 140
 Arg Gly Phe Leu Leu Asn Gly Asp Ser Arg Arg Gln Pro Phe Asn Val
 145 150 155 160
 Val Asp Ile Arg Phe Phe His Gln Arg Gln Glu Leu Thr Arg Val Arg
 165 170 175
 Arg Glu Arg Phe Asn Val Thr Thr Leu Ser Phe Gly Ile Gln Ser Val
 180 185 190
 Glu Ser Gln
 195

<210> 9555
 <211> 550
 <212> PRT
 <213> Enterobacter cloacae

<400> 9555

Phe	Met	Gln	Arg	Asn	His	Leu	Phe	Ile	Lys	Ala	Ala	Gly	Leu	His	Cys
1				5					10					15	
Tyr	Arg	Arg	Thr	Thr	Cys	Arg	Asp	Thr	Glu	Arg	Glu	Met	Asn	Arg	Ser
			20					25					30		
Ala	Arg	Arg	Lys	Met	Leu	Lys	Val	Val	Gly	Ile	Ile	Met	Val	Val	Met
			35				40					45			
Leu	Pro	Val	Met	Leu	Ala	Leu	Trp	Phe	Ala	Gln	Leu	Ser	Ala	Val	Ser
	50					55					60				
Glu	Ile	Ser	Ala	Gln	Leu	Arg	Thr	Phe	Ala	Glu	Leu	Ala	Leu	Asn	Lys
65					70					75					80
Thr	Glu	Arg	Val	Ile	Gln	Gln	Val	Asp	Leu	Ala	Arg	Lys	Asp	Ala	Glu
				85					90					95	
Lys	Tyr	Gln	Gly	Lys	Val	Cys	Thr	Pro	Glu	His	Arg	Gln	Tyr	Met	Leu
			100					105					110		
Asn	Val	Ser	Arg	Gly	Arg	Leu	Phe	Val	Ala	Asp	Leu	Ile	Tyr	Ala	Asp
			115				120					125			
Gly	Gln	Asp	Phe	Leu	Cys	Ser	Thr	Leu	Phe	Thr	Pro	Glu	His	Pro	Tyr
	130					135					140				
Ile	Ile	Pro	Ala	Ala	Asn	Tyr	Thr	Arg	Lys	Pro	Asp	Val	Ala	Ile	Tyr
145					150					155					160
Tyr	Phe	Arg	Asp	Thr	Pro	Phe	Phe	Asn	Gly	Tyr	Lys	Met	Ile	Tyr	Met
				165					170					175	
Gln	Arg	Gly	Asn	Tyr	Val	Ala	Val	Val	Asn	Pro	Leu	Ser	Tyr	Ser	Glu
			180					185					190		
Val	Met	Ser	Asp	Asp	Arg	Ser	Leu	Ser	Trp	Gly	Val	Tyr	Asp	Thr	Val
			195				200					205			
Ser	Asn	Ala	Phe	Phe	Ser	Val	Ser	Gln	Lys	Ala	Asn	Ile	Ser	Leu	Leu
	210					215					220				
His	Ser	Met	Leu	Arg	His	Gln	Glu	Thr	Thr	Phe	Gln	Lys	Asp	Asp	Arg
225					230					235					240
Phe	Tyr	Thr	Ile	Val	Lys	Ser	Glu	Gln	Arg	Pro	Ile	Ala	Ala	Ile	Val
				245					250					255	
Ser	Thr	Ser	Ser	Ala	Arg	Phe	Tyr	Lys	Thr	Leu	Tyr	His	Gln	Ala	Thr
				260				265					270		
Leu	Thr	Leu	Pro	Leu	Gly	Ile	Ile	Cys	Ser	Ile	Ile	Ile	Leu	Leu	Val
		275					280					285			
Trp	Ser	Arg	Thr	His	Arg	Glu	Phe	Asn	Ser	Pro	Gly	Arg	Leu	Leu	His
						295					300				
Arg	Ala	Leu	Asn	Lys	Arg	Gln	Leu	Cys	Val	His	Tyr	Gln	Pro	Ile	Ile
305					310					315					320
Asp	Ile	Lys	Asn	Asn	Gln	Cys	Val	Gly	Ala	Glu	Ala	Leu	Leu	Arg	Trp
				325					330					335	
Pro	Gly	Phe	Asn	Gly	Gln	Val	Met	Ser	Pro	Ala	Glu	Phe	Ile	Pro	Leu
			340					345					350		
Ala	Glu	Lys	Glu	Gly	Met	Ile	Glu	Arg	Ile	Thr	Asp	Tyr	Val	Val	Glu
		355					360				365				
Glu	Val	Phe	Ser	Asp	Leu	Gly	His	Phe	Leu	Ala	Ala	His	Pro	Asp	Leu
						375					380				
Tyr	Val	Ser	Ile	Asn	Leu	Ser	Ala	Ser	Asp	Phe	His	Ser	Ser	Arg	Leu
385					390					395					400
Ile	Ala	Leu	Ile	Ser	Asp	Lys	Ala	Arg	Phe	Tyr	Ser	Val	Arg	Ala	Gln
				405					410					415	
Gln	Ile	Lys	Ile	Glu	Val	Thr	Glu	Arg	Gly	Phe	Ile	Asp	Val	Pro	Lys
			420					425					430		
Thr	Thr	Pro	Val	Ile	Gln	Ala	Phe	Arg	Gln	Ala	Gly	Tyr	Glu	Val	Ala
			435				440					445			
Ile	Asp	Asp	Phe	Gly	Thr	Gly	Tyr	Ser	Asn	Leu	His	Asn	Leu	Tyr	Ser
	450					455					460				
Leu	Asn	Val	Asp	Ile	Leu	Lys	Ile	Asp	Lys	Ser	Phe	Ile	Asp	Thr	Leu

Ser	Arg	Gly	Gly	Asp	Leu	Gly	Met	Met	Ile	Met	Met	Leu	Cys	Gly	Phe
	130					135					140				
Ala	Ala	Tyr	Met	Thr	His	Ile	Gly	Ala	Asn	Asp	Met	Val	Val	Lys	Leu
145					150					155					160
Ala	Ser	Lys	Pro	Leu	Gln	Tyr	Ile	Asn	Ser	Pro	Tyr	Leu	Leu	Met	Val
				165					170					175	
Ala	Ala	Tyr	Phe	Leu	Ala	Cys	Leu	Met	Ser	Leu	Ala	Val	Ser	Ser	Ala
			180					185					190		
Thr	Gly	Leu	Gly	Val	Leu	Leu	Met	Ala	Thr	Leu	Phe	Pro	Val	Met	Val
		195					200					205			
Asn	Val	Gly	Ile	Ser	Arg	Gly	Ala	Ala	Ala	Ala	Ile	Cys	Ala	Ser	Pro
	210					215					220				
Ala	Ala	Ile	Ile	Leu	Ser	Pro	Thr	Ser	Gly	Asp	Val	Val	Leu	Ala	Ala
225					230					235					240
Lys	Ala	Ala	Glu	Met	Ser	Leu	Ile	Asp	Phe	Ala	Phe	Lys	Thr	Thr	Leu
			245						250					255	
Pro	Ile	Ser	Ile	Thr	Ala	Ile	Leu	Gly	Met	Gly	Val	Ala	His	Phe	Phe
			260						265					270	
Trp	Gln	Arg	Tyr	Leu	Asp	Lys	Lys	Glu	Asn	Val	Ser	His	Glu	Met	Met
		275					280					285			
Asp	Val	Ser	Glu	Ile	Thr	Thr	Thr	Ala	Pro	Ala	Phe	Tyr	Ser	Ile	Leu
	290					295					300				
Pro	Phe	Met	Pro	Ile	Ile	Gly	Val	Leu	Ile	Phe	Asp	Gly	Lys	Trp	Gly
305				310						315					320
Pro	Gln	Leu	His	Ile	Ile	Thr	Ile	Leu	Val	Ile	Cys	Met	Leu	Leu	Ala
			325						330					335	
Ala	Ile	Leu	Glu	Phe	Val	Arg	Gly	Phe	Asn	Thr	Gln	Lys	Val	Phe	Thr
			340					345					350		
Gly	Leu	Glu	Val	Ala	Phe	Arg	Gly	Met	Ala	Asp	Ala	Phe	Ala	Gly	Val
		355					360				365				
Val	Met	Leu	Leu	Val	Ala	Ala	Gly	Val	Phe	Ala	Gln	Gly	Leu	Ser	Thr
	370					375					380				
Ile	Gly	Phe	Ile	Gln	Ser	Leu	Ile	Ser	Ile	Ala	Thr	Ser	Phe	Gly	Ser
385				390					395						400
Ala	Ser	Ile	Ile	Leu	Met	Leu	Val	Leu	Val	Val	Leu	Thr	Met	Leu	Ala
				405					410					415	
Ala	Met	Thr	Thr	Gly	Ser	Gly	Asn	Ala	Pro	Phe	Tyr	Ala	Phe	Val	Glu
			420				425						430		
Met	Ile	Pro	Lys	Leu	Ala	His	Ser	Ser	Gly	Ile	Asn	Pro	Ala	Tyr	Leu
		435					440					445			
Ser	Ile	Pro	Met	Leu	Gln	Ala	Ser	Asn	Leu	Gly	Arg	Thr	Ile	Ser	Pro
	450					455					460				
Val	Ser	Gly	Val	Val	Val	Ala	Val	Ala	Gly	Met	Ala	Lys	Ile	Ser	Pro
465					470					475					480
Phe	Glu	Val	Val	Lys	Arg	Thr	Ser	Val	Pro	Val	Leu	Val	Gly	Leu	Ile
				485					490					495	
Ile	Val	Ile	Ile	Ala	Thr	Glu	Val	Leu	Val	Pro	Gly	Ala	Ala		
			500					505					510		

<210> 9558

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 9558

Ser	Trp	Arg	Tyr	Leu	Gln	Glu	Glu	Phe	His	Met	Ala	Lys	Lys	Leu	Ile
1				5					10					15	
Ala	Leu	Cys	Ala	Cys	Pro	Met	Gly	Leu	Ala	His	Thr	Phe	Met	Ala	Ala
			20					25					30		
Gln	Ala	Leu	Glu	Asp	Ala	Ala	Thr	Glu	Ala	Gly	Tyr	Glu	Val	Lys	Ile
			35				40					45			

Glu Thr Gln Gly Ala Asp Gly Ile Gln Asn Arg Leu Thr Pro Gln Asp
 50 55 60
 Ile Ala Asp Ala Asp Ile Ile His Ala Ile Thr Pro Glu
 65 70 75 80
 Asp Asn Glu Arg Phe Glu Met Arg Asp Val Tyr Glu Ile Thr Leu Gln
 85 90 95
 Asp Ala Ile Lys Asn Ala Ala Gly Thr Leu Lys Glu Ile Glu Glu Met
 100 105 110
 Ile Ala Ala Glu Gln
 115

<210> 9559

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 9559

Ser Ser His Pro Gly Val Phe Val Met Ala Ile Lys Lys Arg Ser Ala
 1 5 10 15
 Val Arg Pro Asp Ser His Glu Gly Asp Thr Leu Ala Ile Lys Ser Ala
 20 25 30
 Pro Val Ala Ala Gly Ala Ser Phe Trp Lys Glu Leu Pro Gln His Ile
 35 40 45
 Met Ser Gly Ile Ser Arg Met Val Pro Thr Leu Ile Met Gly Gly Val
 50 55 60
 Ile Leu Ala Ile Ser Gln Leu Ile Ala Tyr Val Trp Leu Glu Ile Pro
 65 70 75 80
 Pro Asp Thr Gly Ile Leu Asp Ala Leu Asn Ser Gly Lys Phe Thr Gly
 85 90 95
 Phe Asn Leu Ser Leu Leu Lys Phe Gly Tyr Leu Thr Glu Ser Phe Gly
 100 105 110
 Gly Leu Leu Phe Ser Phe Ala Ile Pro Met Phe Ala Ala Phe Val Ala
 115 120 125
 Asn Ser Ile Gly Gly Lys Leu Ala Phe Pro Ala Gly Phe Ile Gly Gly
 130 135 140
 Leu Val Ala Thr Gln Pro Thr Leu Val Leu Asn Phe Asp Ala Glu Lys
 145 150 155 160
 Leu Thr Trp Leu Ala Thr Lys Pro Val Pro Ser Thr Phe Ile Gly Ala
 165 170 175
 Leu Ile Ile Ala Ile Ala Ala Gly Tyr Leu Val Lys Trp Leu Asn Ser
 180 185 190
 Arg Ile Asn Val Pro Gln Tyr Leu Leu Ala Phe Lys Ser Thr Phe Leu
 195 200 205
 Ile Pro Ile Leu Ser Ala Leu Phe Val Met Leu Ala Met Tyr Tyr Ile
 210 215 220
 Ile Thr Pro Ile Gly Gly Trp Leu Asn Ala Gly Met Arg Thr Val Leu
 225 230 235 240
 Leu Ala Ala Gly Gln Ala Gly Ser Met Met Tyr Ala Ile Gly Met Ala
 245 250 255
 Ala Ala Thr Ala Ile Asp Leu Gly Gly Pro Ile Asn Lys Ala Ala Gly
 260 265 270
 Phe Val Gly Leu Gly Leu Thr Thr Asp His Val Leu Pro Ile Thr Ser
 275 280 285
 Arg Ala Val Ala Ile Val Ile Pro Pro Ile Gly Leu Gly Leu Ala Thr
 290 295 300
 Leu Ile Asp His Arg Leu Thr Gly Lys Arg Leu Phe Ser Pro Gln Leu
 305 310 315 320
 Tyr Pro Gln Gly Lys Thr Ala Met Phe Leu Ala Phe Met Gly Ile Ser
 325 330 335
 Glu Gly Ala Ile Pro Phe Leu Leu Glu Asn Pro Leu Ala Thr Leu Pro
 340 345 350

Ala	Tyr	Met	Ala	Gly	Ala	Ile	Ala	Gly	Ala	Met	Thr	Ala	Thr	Ala	Leu
		355					360					365			
Gly	Ala	Val	Gln	Trp	Phe	Pro	Glu	Ser	Ala	Ile	Trp	Ala	Trp	Pro	Leu
		370				375					380				
Val	Thr	Asn	Leu	Gly	Ala	Tyr	Met	Leu	Ser	Ile	Val	Val	Gly	Ala	Ala
385					390					395					400
Ile	Thr	Ala	Leu	Leu	Val	Val	Ile	Ile	Arg	Asn	Ser	Leu	His	Lys	Arg
			405						410					415	
Gly	Lys	Leu	Ala	Ile	Asp	Thr	Leu								
			420				425								

<210> 9560

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9560

Arg	Cys	Gly	Ala	Gly	Asp	Gly	Asn	Gly	Arg	Arg	Gly	Ala	Leu	Tyr	Leu
1				5					10					15	
Arg	Gln	Thr	Ala	Ile	Ala	Asp	Gly	Arg	Ile	Arg	Val	Asp	Arg	Asp	Leu
			20					25					30		
Leu	Arg	Ala	Leu	Ser	Glu	Ala	Asp	Ala	Ile	Ala	Ala	Ser	Glu	Gln	Glu
		35					40					45			
Val	Arg	Asp	Ile	Leu	Leu	Ser	Glu	Ala	Gln	Lys	Tyr	His	Lys	Glu	Val
		50				55					60				
Gln	Phe	Asp	Gly	Leu	Gly	Ser	Val	Leu	Ile	Arg	Val	Asn	Gln	Ser	Arg
65					70					75					80
Gly	Pro	Lys	Val	Met	Val	Cys	Ala	His	Met	Asp	Glu	Val	Gly	Phe	Met
				85					90					95	
Val	Arg	Ser	Val	Ser	Arg	Glu	Gly	Ala	Ile	Asp	Val	Leu	Pro	Ile	Gly
			100					105						110	
Asn	Val	Arg	Met	Met	Ala	Arg	Thr	Leu	Gln	Pro	Val	Arg	Ile	Thr	Thr
			115				120						125		
Arg	Asn	Gly	Glu	Lys	Ile	Pro	Gly	Leu	Leu	Asp	Gly	Asp	Leu	Lys	Gly
		130				135					140				
Glu	Asn	Val	Asp	Asn	Leu	Arg	Val	Asp	Ile	Gly	Ala	Thr	Ser	Ala	Glu
145					150					155					160
Glu	Val	Phe	Ala	Ala	Gly	Ile	Asp	Ala	Gly	Asp	Arg	Val	Thr	Phe	Asp
				165					170					175	
Thr	Pro	Phe	Gln	Thr	Leu	Pro	His	Asn	Arg	Val	Met	Gly	Lys	Ala	Phe
			180					185					190		
Asp	Asp	Arg	Leu	Gly	Cys	Tyr	Leu	Leu	Ile	Ala	Leu	Leu	Arg	Glu	Leu
		195					200					205			
His	Gln	Thr	Pro	Leu	Asp	Cys	Glu	Leu	Trp	Leu	Val	Ala	Ser	Ser	Ser
		210				215					220				
Glu	Glu	Val	Gly	Leu	Arg	Gly	Gly	Gln	Thr	Ala	Thr	Arg	Ala	Ile	His
225					230					235					240
Pro	Asp	Ile	Ala	Leu	Val	Leu	Asp	Thr	Ala	Cys	Trp	Ser	Lys	Asn	Phe
				245					250					255	
Asp	Tyr	Gly	Ser	Ala	Asn	His	Arg	Gln	Ile	Gly	Ala	Gly	Pro	Met	Leu
			260					265					270		
Val	Leu	Tyr	Asp	Lys	Thr	Leu	Ile	Ala	Pro	Ala	Lys	Leu	Ile	Ala	Leu
		275					280					285			
Ala	Glu	Thr	Ile	Ala	Arg	Ser	Gln	Gly	Ile	Pro	Leu	Gln	Lys	Asp	Met
						295					300				
Phe	Ser	Asn	Gly	Gly	Thr	Asp	Gly	Gly	Ala	Ile	His	Leu	Ser	Gly	Thr
305					310					315					320
Gly	Val	Pro	Thr	Leu	Val	Leu	Gly	Pro	Pro	Thr	Arg	His	Gly	His	Cys
				325					330					335	
Ala	Ala	Ser	Ile	Ala	Asp	Glu	Lys	Asp	Ile	His	His	Thr	Gln	Gln	Leu
			340					345					350		

Leu Val Ala Leu Val Ala Gly Met Asn Arg Glu Thr Val Asp His Leu
 355 360 365
 Thr Asp Phe Arg Cys
 370

<210> 9561

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9561

Leu Pro Ser Val Val Leu Gln Asp Gly Ile Thr Thr Ala Asn Ser Thr
 1 5 10 15
 His Ser Gly Arg Asn Met Ala Asn Leu Tyr Asp Leu Lys Lys Phe Asp
 20 25 30
 Leu Asn Leu Leu Val Ile Phe Glu Cys Ile Tyr Gln His Leu Ser Ile
 35 40 45
 Ser Arg Ala Ala Glu Thr Leu Tyr Ile Thr Pro Ser Ala Val Ser Gln
 50 55 60
 Ser Leu Gln Arg Leu Arg Gly Gln Leu Asn Asp Pro Leu Phe Ile Arg
 65 70 75 80
 Ser Gly Lys Gly Ile Thr Pro Thr Thr Val Gly Thr Asn Leu His His
 85 90 95
 His Leu Glu Lys Asn Leu Asn Gln Leu Glu Gln Thr Ile Asn Met Met
 100 105 110
 His His Ser Asp Ile Lys Lys Lys Phe Val Ile Tyr Cys Ser Gln Met
 115 120 125
 Val Ser Pro Gly Ser Met Leu Glu Pro Leu Lys Leu Leu Ile Ser Glu
 130 135 140
 Glu Asn Tyr Glu Ile Glu Gln Arg Asp Met Leu Ile Ser Ser Glu Ser
 145 150 155 160
 Ala Glu Asp Leu Leu Ala Tyr Arg Lys Ala Asp Leu Ile Phe Ser Ile
 165 170 175
 Ala Pro Ile His Asn Arg Ser Val Val Cys Thr His Phe Thr Thr Val
 180 185 190
 Pro Ile Ala Leu Ile Cys Arg Ala Asp His Pro Arg Leu Ala Asp Ala
 195 200 205
 Val Thr Leu Glu Val Leu Tyr Gln Glu Lys Phe Thr Phe Tyr Gln Ser
 210 215 220
 Ala His Pro Gly Val Lys Glu Phe Gln Ser Arg Ala Asn Asp Ala Phe
 225 230 235 240
 Pro Glu Arg Asn Ile Ala Phe Arg Thr Asp Ser Leu Ser Ser Leu Ile
 245 250 255
 Ser Met Val Cys Ser Ser Asp Leu Leu Gly Phe Ile Pro Val Ser Ile
 260 265 270
 Tyr Glu Thr Tyr Lys Glu Pro Leu Lys Leu Lys Arg Leu Glu Pro Pro
 275 280 285
 Phe Glu Leu Pro Glu Leu Lys Ile Tyr Met Leu Tyr Ser Arg Ser Ser
 290 295 300
 Leu Asn Ser Thr Val Phe Ser Thr Phe Ile Glu Lys Met His Lys Leu
 305 310 315 320
 Cys Val Ser Pro Pro Ser Ala
 325

<210> 9562

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9562

Lys Glu Met Thr Asp Asn Leu Gln Leu Thr His Leu Val Glu Ala Cys

1			5				10			15					
Arg	Trp	Ile	Gly	Ala	Lys	Gly	Trp	Ala	Pro	Ala	Thr	Gly	Gly	Asn	Met
			20					25					30		
Ser	Met	Arg	Gln	Asp	Glu	His	Leu	Cys	Trp	Leu	Ser	Glu	Ser	Gly	Lys
		35					40					45			
Asp	Lys	Gly	Ser	Leu	Thr	Thr	Ala	Asp	Phe	Leu	Gln	Val	Glu	Ile	Ala
	50					55					60				
Thr	Asn	Arg	Ala	Pro	Ser	Gly	Arg	Lys	Pro	Ser	Ala	Glu	Thr	Gly	Leu
65					70					75					80
His	Thr	Leu	Ile	Tyr	Arg	Leu	Phe	Pro	Glu	Ala	Asn	Ala	Val	Leu	His
			85					90						95	
Val	His	Thr	Val	Asn	Ala	Thr	Val	Leu	Ser	Arg	Leu	Val	Asn	Glu	Ala
			100					105					110		
Glu	Leu	Lys	Ile	Thr	Gly	Phe	Glu	Met	Gln	Lys	Ser	Leu	Thr	Gly	Gln
		115					120					125			
Thr	Thr	His	Arg	Asp	Thr	Val	Ala	Ile	Pro	Val	Phe	Asp	Asn	Asp	Gln
	130				135						140				
Asp	Ile	Asp	Ala	Leu	Ala	Ser	Arg	Ile	Ala	His	Tyr	Ala	Gln	Glu	Arg
145				150					155						160
Pro	Leu	Asn	Tyr	Gly	Phe	Leu	Leu	Arg	Gly	His	Gly	Leu	Thr	Cys	Trp
			165					170						175	
Gly	Arg	Asp	Val	Ala	Glu	Ala	Arg	Arg	His	Leu	Glu	Gly	Leu	Glu	Phe
			180				185						190		
Leu	Phe	Glu	Cys	Glu	Met	Arg	Leu	Arg	Gln	Trp	Glu	Arg	Val		
		195					200					205			

<210> 9563

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9563

Cys	Leu	His	Val	Val	Asn	Ser	Leu	Leu	Arg	Cys	Cys	Ser	Thr	Leu	Cys
1			5					10					15		
Gln	Asp	Glu	Ile	Gln	Met	Tyr	Arg	Arg	Leu	His	Val	Leu	Ile	Ser	Lys
		20						25					30		
Thr	Glu	Glu	Gln	Ala	Met	Ser	Gln	Tyr	Arg	Thr	Phe	Thr	Ala	Gln	Asp
	35						40					45			
Ala	Val	Glu	Tyr	Ala	Arg	Gln	Phe	Gly	Gly	Leu	Asp	Asp	Pro	Ser	Ser
	50					55					60				
Leu	Val	Glu	Ala	Gln	Glu	Val	Gly	Asp	Gly	Asn	Leu	Asn	Leu	Val	Phe
65				70					75						80
Lys	Ile	Phe	Asp	Ser	Ala	Gly	Val	Ser	Arg	Ile	Val	Val	Lys	Gln	Ala
			85					90						95	
Leu	Pro	Tyr	Val	Arg	Cys	Val	Gly	Glu	Ser	Trp	Pro	Leu	Thr	Leu	Asp
		100					105						110		
Arg	Ala	Arg	Leu	Glu	Ala	Gln	Thr	Leu	Val	Glu	His	Tyr	Gln	His	Ser
	115						120					125			
Pro	Gln	His	Thr	Val	Lys	Ile	His	His	Phe	Asp	Pro	Glu	Leu	Ala	Val
	130				135						140				
Met	Val	Met	Glu	Asp	Leu	Ser	Ser	His	Arg	Ile	Trp	Arg	Gly	Glu	Leu
145				150					155						160
Ile	Arg	Asn	Asn	Tyr	Tyr	Pro	Gln	Ala	Ala	Arg	Gln	Leu	Gly	Glu	Tyr
			165					170						175	
Leu	Ala	His	Thr	Leu	Phe	His	Thr	Ser	Asp	Phe	Tyr	Leu	His	Pro	His
		180					185						190		
Glu	Lys	Lys	Ala	Gln	Val	Ala	Lys	Phe	Ile	Asn	Pro	Glu	Met	Cys	Glu
	195						200					205			
Ile	Thr	Glu	Asp	Leu	Phe	Phe	Asn	Asp	Pro	Tyr	Gln	Ile	His	Ala	Arg
	210					215					220				
Asn	Ser	Tyr	Pro	Ala	Glu	Leu	Glu	Asn	Asp	Val	Ala	Ala	Leu	Arg	Asp

225					230					235				240
Asp	Ala	Gln	Leu	Lys	Ile	Ala	Val	Ala	Ser	Leu	Lys	His	Arg	Phe
				245					250					255
Ser	His	Ala	Glu	Ala	Leu	Leu	His	Gly	Asp	Ile	His	Ser	Gly	Ser
			260					265					270	Ile
Phe	Val	Ala	Asp	Gly	Ser	Leu	Lys	Ala	Ile	Asp	Ala	Glu	Phe	Gly
		275					280					285		Tyr
Phe	Gly	Pro	Ile	Gly	Phe	Asp	Val	Gly	Thr	Ala	Ile	Gly	Asn	Leu
	290					295					300			Leu
Leu	Asn	Phe	Cys	Gly	Leu	Pro	Gly	His	Leu	Gly	Ile	Arg	Asp	Ala
305					310					315				Ala
Ala	Ala	Arg	Glu	Gln	Arg	Leu	Thr	Asp	Ile	Gln	Glu	Leu	Trp	Asn
				325					330					Thr
Phe	Ala	Glu	Arg	Phe	Gln	Val	Leu	Ala	Asn	Glu	Lys	Ala	Arg	Asp
			340					345					350	Ala
Ala	Leu	Ser	Ala	Pro	Gly	Tyr	Ala	Ser	Ala	Phe	Leu	Lys	Lys	Val
		355					360					365		Trp
His	Asp	Ala	Ile	Gly	Phe	Cys	Gly	Thr	Glu	Leu	Ile	Arg	Arg	Ser
	370					375					380			Val
Gly	Leu	Ser	His	Val	Ala	Asp	Ile	Asp	Thr	Ile	Gln	Asp	Glu	Ala
385					390					395				Met
Arg	His	Glu	Cys	Leu	Arg	His	Ala	Ile	Ser	Leu	Gly	Lys	Ala	Leu
			405						410					Ile
Val	Ile	Ala	Asp	Arg	Ile	Asp	Ser	Ala	Glu	Glu	Leu	Val	Ala	Arg
			420					425					430	Val
Arg	Gln	Tyr	Ser											
		435												

<210> 9564

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9564

Arg	Leu	Leu	Lys	Lys	Asp	Asn	Phe	Met	Ser	Asn	Thr	Asp	Ile	Arg	Val
1				5					10					15	
Val	Pro	Gly	Pro	Ala	Asn	Tyr	Phe	Ser	His	Pro	Gly	Ser	Leu	Ala	His
			20					25					30		
Leu	Asp	Asn	Phe	Phe	Thr	Pro	Glu	Gln	Leu	Ser	Arg	Ala	Val	Trp	Ile
		35					40					45			
Tyr	Gly	Glu	Arg	Ala	Ile	Glu	Gly	Ala	Arg	Pro	Tyr	Leu	Pro	Gln	Ser
	50					55					60				
Phe	Asn	Ala	Thr	Gly	Ala	Lys	His	Leu	Leu	Phe	Lys	Gly	His	Cys	Ser
65				70						75				80	
Glu	Arg	Asp	Val	Thr	Arg	Leu	Val	Asn	Glu	Ser	Gly	Ser	Glu	Thr	Ser
				85					90					95	
Val	Val	Ile	Gly	Val	Gly	Gly	Gly	Ala	Val	Met	Asp	Thr	Val	Lys	Ala
			100					105					110		
Val	Ala	Arg	Arg	Leu	Gly	Val	Pro	Phe	Val	Gly	Ile	Pro	Thr	Ile	Ala
		115					120					125			
Ala	Thr	Cys	Ala	Ala	Trp	Thr	Pro	Leu	Ser	Val	Trp	Tyr	Asn	Asp	Ala
	130					135					140				
Gly	Gln	Ala	Leu	Gln	Phe	Glu	Ile	Phe	Asp	Asp	Ala	Asn	Phe	Leu	Val
145					150					155				160	
Leu	Val	Glu	Pro	Gln	Ile	Ile	Leu	Asn	Ala	Pro	Ala	Glu	Tyr	Leu	Leu
				165					170					175	
Ala	Gly	Ile	Gly	Asp	Thr	Leu	Ala	Lys	Trp	Tyr	Glu	Ala	Ala	Val	Leu
			180					185					190		
Ala	Pro	Gln	Pro	Glu	Ser	Leu	Pro	Leu	Thr	Val	Arg	Leu	Gly	Leu	Asn
		195					200					205			
Gly	Ala	Leu	Ala	Ile	Arg	Asp	Val	Leu	Leu	Glu	Arg	Ser	Glu	Glu	Ala

210	215	220
Leu Ala Asp Gln Gln Arg Gly Glu Gln Thr Gln Ala Phe Arg Asp Val		
225	230	235
Val Asp Ala Ile Ile Ala Gly Gly Gly Met Val Gly Gly Leu Gly Glu		
	245	250
Arg Tyr Thr Arg Val Ala Ala Ala His Ala Val His Asn Gly Leu Thr		
	260	265
Val Leu Pro Gln Thr Glu Lys Tyr Leu His Gly Thr Lys Val Ala Tyr		
	275	280
Gly Ile Leu Val Gln Ser Ala Leu Leu Gly Gln Asp Asp Val Leu Ala		
	290	295
Gln Leu Val Ala Ala Tyr Arg Arg Phe Asn Leu Pro Ile Thr Leu Arg		
305	310	315
Glu Leu Asp Val Asp Ile His Asn Arg Asp Glu Leu Asp Lys Val Ile		
	325	330
Gly His Thr Leu Arg Pro Val Glu Ser Ile His Tyr Leu Pro Val Thr		
	340	345
Leu Thr Pro Glu Val Leu Arg Ala Ala Phe Ala Lys Val Glu Ser Phe		
	355	360
Ser Arg		365
370		

<210> 9565

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9565

Leu Arg Arg Arg Ala Ile Pro Asn Asp Asp Ser Leu His Ser Cys Asn	
1	5
Glu Val Ile Met Gln Ile Asp Leu Ser Gly Lys Lys Ala Leu Val Thr	
	20
Gly Ala Ser Arg Gly Leu Gly Arg Ala Ile Ala Leu Ser Leu Ala Arg	
	35
Ala Gly Ala Asp Val Val Ile Thr Tyr Glu Lys Ser Val Asp Lys Ala	
	50
Gln Ala Val Ala Asp Glu Ile Lys Ala Leu Gly Arg His Gly Glu Ala	
65	70
Ile Gln Ala Asp Ser Ala Ser Ala Gln Ala Ile Gln Asp Ala Val Thr	
	85
Gln Ala Ala Arg Ser Leu Gly Gly Leu Asp Ile Leu Val Asn Asn Ala	
	100
Gly Ile Ala Arg Gly Gly Pro Leu Glu Ser Met Thr Leu Ala Asp Ile	
	115
Asp Ala Leu Ile Asn Val Asn Ile Arg Gly Val Val Ile Ala Ile Gln	
	130
Glu Ala Leu Val His Met Ser Asp Gly Gly Arg Ile Ile Asn Ile Gly	
145	150
Ser Cys Leu Ala Asn Arg Val Ala Gln Pro Gly Ile Ala Val Tyr Ser	
	165
Met Thr Lys Ser Ala Leu Asn Ser Leu Thr Arg Gly Leu Ala Arg Asp	
	180
Leu Gly Pro Arg Gly Ile Thr Val Asn Leu Val His Pro Gly Pro Thr	
	195
Asn Ser Asp Met Asn Pro Glu Asp Gly Glu Gln Ala Asp Ser Gln Arg	
	210
Gln Leu Ile Ala Leu Gly His Tyr Gly Gln Pro Glu Asp Ile Ala Ala	
225	230
Ala Val Thr Phe Leu Ala Ser Pro Ala Ala Gly Gln Ile Ser Gly Thr	
	245
Gly Leu Asp Val Asp Gly Gly Leu Asn Ala	

260

265

<210> 9566

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 9566

Lys	Phe	Gly	Ile	Tyr	Leu	Ile	Val	Leu	Leu	Phe	Pro	Tyr	Ile	Leu	Cys
1				5					10					15	
Gly	Arg	Thr	Val	Glu	Val	Arg	Met	Lys	Ile	Val	Trp	Ser	Lys	Thr	Ala
			20					25					30		
Glu	Lys	Gln	Phe	Ser	Lys	Ile	Asp	Pro	Arg	Tyr	Gln	Asn	Arg	Ile	Lys
		35					40					45			
Phe	Arg	Leu	Glu	Lys	Met	Asp	Asp	Lys	Thr	Ser	Pro	Val	Ala	Asp	Ile
		50				55					60				
Lys	Lys	Leu	Ser	Ser	Pro	Glu	Asn	His	Tyr	Arg	Leu	Arg	Leu	Gly	Asp
65					70				75					80	
Tyr	Arg	Val	Ile	Tyr	Thr	Phe	Gly	Asp	Pro	Pro	Gly	Asp	Ile	Cys	Tyr
				85					90					95	
Val	Val	Ala	Val	Lys	Arg	Arg	Thr	Thr	Thr	Tyr	Leu	His		Glu	Glu
			100					105				110			
His	Thr	Glu	Tyr	Asp	Tyr	Ser	Val	His	Gln	Gly					
		115					120								

<210> 9567

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 9567

Tyr	Pro	Lys	Ser	Ala	Cys	Gly	Arg	Phe	Leu	Cys	Phe	Asn	Asn	Pro	Gln
1				5					10					15	
Lys	Leu	Ile	Ala	Pro	Asn	Gln	Ser	Gly	Lys	Gln	Met	Phe	Arg	Lys	Asp
			20					25					30		
Ile	Val	Ile	Pro	Ser	Gly	Ala	Val	Ala	Leu	Ala	Leu	Cys	Val	Phe	Ser
		35					40					45			
Ile	Gln	Ala	Asp	Pro	Leu	Lys	Pro	Thr	Gln	Tyr	Gly	Asp	Phe	Asp	Arg
	50					55					60				
Tyr	Val	Leu	Ala	Leu	Ser	Trp	Gln	Thr	Gly	Phe	Cys	Gln	Ser	Met	Val
65					70				75					80	
Glu	Arg	Asn	Arg	Asp	Glu	Pro	Glu	Glu	Cys	Arg	Leu	Gln	Lys	Glu	Ser
			85					90					95		
Ser	Asn	Lys	Thr	Asp	Phe	Leu	Thr	Val	His	Gly	Leu	Trp	Pro	Ala	Leu
			100					105					110		
Pro	Lys	Ser	Ile	Ala	Ala	Arg	Gly	Val	Asp	Glu	Arg	Arg	Trp	Met	Arg
		115					120					125			
Phe	Gly	Cys	Ala	Thr	Arg	Pro	Val	Pro	Asn	Met	Pro	Glu	Ala	Lys	Ala
		130				135					140				
Ser	Arg	Lys	Cys	Asp	Ala	Ala	Glu	Thr	Gly	Leu	Ser	Leu	Thr	Gly	Ala
145					150				155					160	
Ala	Lys	Leu	Asn	Ser	Val	Met	Pro	Gly	Ala	Gly	Gly	Asn	Ser	Cys	Leu
			165					170					175		
Glu	Arg	Tyr	Glu	Tyr	Ala	Lys	His	Gly	Val	Cys	Phe	Gly	Phe	Asp	Pro
			180					185					190		
Asp	Ala	Tyr	Phe	Gly	Thr	Met	Val	Arg	Met	Asn	Gln	Glu	Val	Lys	His
		195					200					205			
Ser	Ala	Ala	Gly	Lys	Phe	Leu	Ala	Glu	Asn	Tyr	Gly	Lys	Ser	Val	Arg
		210				215					220				
Arg	Ser	Asp	Phe	Asp	Ala	Ala	Val	Ala	Lys	Ser	Trp	Gly	Lys	Gln	Ser
225						230					235				240

Val	Lys	Ala	Phe	Lys	Leu	Thr	Cys	His	Gly	Asn	Pro	Ala	Tyr	Leu	Thr
				245					250					255	
Glu	Met	Gln	Ile	Ser	Leu	Asn	Ala	Ser	Thr	Ile	Asn	Asn	Pro	Leu	Ser
			260					265					270		
Ala	Gly	Ser	Phe	Ala	Pro	Gln	Pro	His	Pro	Gly	Asn	Cys	Gly	Lys	Gln
		275					280					285			
Phe	Val	Ile	Asp	Lys	Ala	Gly	Tyr								
	290					295									

<210> 9568

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9568

Phe	Arg	Arg	Pro	Thr	Pro	Gly	Val	Leu	Leu	Gly	Tyr	Asp	Lys	Asp	Leu
1				5					10					15	
Ser	Cys	Arg	Arg	Ala	Lys	His	Ala	Ala	Gly	Gly	Thr	Pro	Leu	Tyr	Ala
			20				25						30		
Val	Tyr	Gln	Ile	Val	Leu	Ala	Ala	Gln	Gln	Ala	Ala	Ile	Asp	Ala	Ile
		35				40						45			
Arg	Pro	Gly	Val	Ser	Cys	His	Gln	Ile	Asp	Ser	Ala	Val	Arg	Ser	Val
	50					55					60				
Ile	Glu	Arg	Ala	Gly	Tyr	Gly	Pro	Gln	Phe	Gly	His	Asn	Thr	Gly	His
65				70					75					80	
Ala	Ile	Gly	Ile	Asp	Val	His	Glu	Asn	Pro	Arg	Phe	Ser	Pro	Thr	Asp
				85					90					95	
Arg	Thr	Pro	Leu	Gln	Pro	Gly	Met	Val	Leu	Thr	Val	Glu	Pro	Gly	Ile
			100				105						110		
Tyr	Leu	Glu	His	Leu	Gly	Gly	Val	Arg	Ile	Glu	Asp	Val	Val	Leu	Val
		115					120					125			
Thr	Glu	Thr	Gly	Ala	Glu	Val	Leu	Tyr	Thr	Phe	Asp	Lys	Arg	Leu	Leu
	130					135					140				
Leu	Thr	Gly	Glu												
145															

<210> 9569

<211> 819

<212> PRT

<213> Enterobacter cloacae

<400> 9569

Arg	Thr	Ser	Asp	Ala	Asp	Leu	Thr	Arg	Pro	Gly	Gly	Ser	Met	Leu	Ser
1				5					10					15	
Ile	Glu	Phe	Phe	Cys	Pro	Leu	Pro	Asn	Gly	Leu	His	Ala	Arg	Pro	Ala
			20					25					30		
Trp	Ala	Leu	Lys	Glu	Gln	Cys	Ser	Ala	Trp	Arg	Ser	Asp	Ile	Arg	Phe
		35					40					45			
Ile	Asn	Arg	Arg	Leu	His	Thr	His	Ala	Asp	Ala	Lys	Ser	Ser	Leu	Ala
	50					55					60				
Leu	Ile	Ser	Thr	Gly	Thr	Leu	Phe	Asn	Asp	Ser	Cys	Val	Leu	Glu	Ile
65				70					75					80	
Asn	Gly	Ser	Asp	Glu	Glu	Gln	Ala	Arg	Arg	Val	Leu	Glu	Ala	Tyr	Leu
				85					90					95	
Thr	Gly	Ala	Phe	Ile	Asp	Ser	Asp	Ser	Ile	Pro	Ser	Gly	Asp	Ala	Pro
			100				105					110			
His	Val	Ala	His	Pro	Leu	Pro	Arg	Ser	Leu	Val	Arg	Leu	Ala	Pro	His
		115					120					125			
Leu	Gln	His	Gly	Ile	Thr	Leu	Ala	Ser	Gly	Ile	Gly	Ala	Gly	Thr	Leu
	130					135					140				
Arg	Gly	Trp	Gln	Ser	Asp	Asn	Leu	Lys	Arg	Tyr	Cys	Gln	Ile	Pro	Ala

145					150					155				160
Ser	Pro	Glu	Asp	Ile	Thr	Arg	Leu	Glu	His	Ser	Leu	Ala	Thr	Leu
				165					170					175
Glu	Gln	Leu	Asn	Tyr	Arg	Leu	Arg	Gly	Leu	Asp	Gly	Glu	Ser	Lys
			180					185					190	
Ile	Leu	Ser	Ala	His	Leu	Ser	Leu	Ile	Gln	Asp	Glu	Glu	Phe	Gly
		195					200					205		Gly
Thr	Ile	Arg	Arg	Leu	Ile	Ala	Glu	Glu	Arg	Leu	Ser	Leu	Ala	Glu
	210					215					220			Ala
Ile	Ile	Arg	Asn	Met	Glu	Leu	Ile	Cys	Asp	Lys	Leu	Ser	Leu	Ser
225					230				235					240
Ser	Asp	Tyr	Leu	Arg	Glu	Arg	Val	Ser	Asp	Ile	Arg	Asp	Ile	Ser
			245						250					255
Gln	Leu	Leu	Asn	Ile	Thr	Trp	Pro	Glu	Leu	Gln	Gln	Thr	Ser	Ala
			260					265					270	Phe
Thr	Leu	Ser	Ala	Pro	Thr	Ile	Leu	Val	Ala	Glu	Asp	Leu	Thr	Pro
		275					280					285		Ser
Gln	Phe	Leu	Ser	Leu	Asp	Thr	Gln	Tyr	Leu	Lys	Gly	Met	Val	Leu
	290					295					300			Glu
Lys	Thr	Gly	Arg	Thr	Ser	His	Thr	Leu	Ile	Leu	Ala	Arg	Ala	Ala
305					310					315				Ser
Val	Pro	Val	Leu	Ser	Gly	Leu	Thr	Val	Ala	Ser	Leu	Ala	Pro	Leu
			325						330					Met
Gly	Lys	Glu	Val	Ile	Leu	Asp	Gly	Ile	Cys	Ser	Val	Leu	Val	Val
		340					345					350		Glu
Pro	Asn	Asp	Ala	Val	Asn	Asp	Tyr	Tyr	Ser	Val	Ala	Gln	Arg	Leu
		355					360					365		Ala
Asp	Arg	Arg	His	Gln	Gln	Gln	Ile	Lys	Asp	Ala	Gly	Leu	Pro	Ala
	370					375				380				Leu
Thr	Arg	Asp	Asn	Val	Pro	Val	Glu	Ile	Ala	Ala	Asn	Ile	Gly	Ser
385					390					395				Ala
Leu	Glu	Ala	Pro	Gly	Ala	Phe	Thr	Cys	Gly	Ala	Gln	Gly	Ile	Gly
			405						410					Leu
Phe	Arg	Thr	Glu	Met	Leu	Tyr	Met	Asp	Arg	Asp	Thr	Ala	Pro	Asp
		420					425					430		Glu
Gln	Glu	Gln	Phe	Glu	Ala	Tyr	Gln	Gln	Val	Leu	Leu	Ser	Ala	Gln
	435						440					445		Gly
Lys	Pro	Val	Ile	Phe	Arg	Thr	Met	Asp	Ile	Gly	Gly	Asp	Lys	Gln
	450					455				460				Ile
Pro	Tyr	Leu	Asn	Ile	Pro	Gln	Glu	Glu	Asn	Pro	Phe	Leu	Gly	Tyr
465					470				475					Arg
Ala	Val	Arg	Ile	Tyr	Pro	Glu	Phe	Ala	Asp	Leu	Phe	Arg	Thr	Gln
			485						490					Leu
Arg	Ala	Ile	Leu	Arg	Ala	Gly	Ala	Ser	Gly	Asn	Ala	Leu	Leu	Met
			500					505					510	Ile
Pro	Met	Val	His	Ser	Leu	Asp	Gln	Ile	Leu	Trp	Ile	Lys	Gln	Glu
	515						520					525		Leu
Gln	Asn	Val	Arg	Asp	Ala	Leu	Ala	Ser	Gln	Gly	Leu	Arg	His	Thr
	530					535				540				Ala
Arg	Leu	Pro	Leu	Gly	Ile	Met	Val	Glu	Val	Pro	Ser	Val	Cys	Phe
545					550					555				Ile
Ile	Asp	His	Phe	Cys	Glu	Glu	Val	Asp	Phe	Phe	Ser	Ile	Gly	Ser
			565						570					Asn
Asp	Met	Thr	Gln	Tyr	Leu	Tyr	Ala	Val	Asp	Arg	Asn	Asn	Pro	Arg
		580						585					590	Val
Ser	Gly	Leu	Tyr	Asn	Pro	Ile	Thr	Pro	Ser	Phe	Leu	Arg	Met	Val
	595						600					605		Arg
Gln	Ile	Val	Thr	Ala	Ala	His	Arg	His	Gly	Lys	Trp	Val	Gly	Ile
	610					615					620			Cys
Gly	Glu	Leu	Gly	Gly	Glu	Gln	Arg	Tyr	Leu	Pro	Leu	Leu	Leu	Gly
625					630					635				Leu

Gly Leu Asp Glu Phe Ser Met Ser Gly Pro Arg Ile Pro Ala Val Lys
 645 650 655
 Thr Gln Leu Arg Gln Leu Asp Met Ala Thr Cys Arg Ala Leu Ala Asp
 660 665 670
 Lys Ala Cys Asp Ser Arg Ser Ala Glu Glu Ile Glu Ala Leu Leu Ala
 675 680 685
 Asp Phe Thr Pro Glu Ala Pro Pro Arg Pro Leu Leu Ala Leu Glu Thr
 690 695 700
 Ile Val Val Asn Glu Pro Leu Thr Ser Lys Glu Gln Val Leu Gln Phe
 705 710 715 720
 Leu Cys Gly Asn Leu Ala Ile His Gly Arg Thr Gly Asn Pro Leu Glu
 725 730 735
 Leu Glu Glu Asp Leu Trp Gln Arg Glu Glu Ile Val Thr Thr Ala Val
 740 745 750
 Gly Phe Gly Val Ala Ile Pro His Thr Lys Ser Gln Trp Ile Arg His
 755 760 765
 Ser Ser Ile Ser Ile Ala Arg Leu Asp Lys Ala Ile Asp Trp Glu Ser
 770 775 780
 Asp Leu Gly Asp Val Glu Leu Val Ile Met Leu Thr Leu Gly Ala Gln
 785 790 795 800
 Glu Gly Ile Asn His Val Lys Val Phe Ser Pro Ala Gly Ala Glu Ala
 805 810 815
 Gly Gln

<210> 9570

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 9570

Arg His Gly Val Lys Met Ser Arg Pro Thr Ile Ile Ile Asn Glu Leu
 1 5 10 15
 Asp Ala Glu Arg Ile Asp Arg Leu Leu Glu Lys Pro Glu Phe Ala Ser
 20 25 30
 Leu Pro Val Ala Asp Ala Leu Asn Glu Glu Leu Asp Arg Ala Gln Met
 35 40 45
 Cys Thr Pro Glu Thr Met Pro His Asp Val Val Thr Met Asn Ser Gln
 50 55 60
 Val Lys Phe Arg Asn Leu Thr Thr Gly Glu Glu Leu Thr Arg Thr Leu
 65 70 75 80
 Val Tyr Pro Ala Gln Met Thr Asp Ser Ser Thr Gln Leu Ser Val Leu
 85 90 95
 Ala Pro Val Gly Ala Ala Leu Leu Gly Leu Arg Thr Gly Asp Thr Ile
 100 105 110
 His Trp Glu Leu Pro Gly Gly Ala Ser Ala His Leu Glu Val Leu Glu
 115 120 125
 Leu Phe Tyr Gln Pro Glu Ala Ala Gly Asp Tyr Leu Arg
 130 135 140

<210> 9571

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 9571

Thr Leu Ser Ala Leu Gln Arg Gln Ser Glu Ser Lys Thr Gln Gly Met
 1 5 10 15
 Gly Asp Phe Met Gln Gln Arg Ile Ile Thr Glu Met Glu Thr Tyr Leu
 20 25 30
 Gln Ala Leu Ser Glu Glu Glu Arg Ile Ala Ala Ile Asn Ala Phe Arg

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<210> 9572
<211> 194
<212> PRT
<213> Enterobacter cloacae
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<210>	9573
<211>	277

<212> PRT

<213> Enterobacter cloacae

<400> 9573

Thr	Met	Glu	Leu	Leu	Arg	Arg	Leu	Arg	Ala	Trp	Leu	Ala	Ala	Glu	Lys
1				5					10					15	
Leu	Asp	Gly	Val	Leu	Ile	Ser	Ser	Arg	Gln	Asn	Lys	Gln	Pro	His	Leu
			20					25					30		
Gly	Ile	Ser	Thr	Gly	Ser	Gly	Tyr	Val	Leu	Val	Thr	Gln	Thr	Ala	Ala
			35				40					45			
His	Ile	Leu	Val	Asp	Phe	Arg	Tyr	Tyr	Ser	Asp	Ile	Ala	Ser	Arg	Ala
	50					55				60					
Ala	Gly	Tyr	Glu	Met	His	Leu	Leu	Asn	Thr	Glu	Asn	Pro	Phe	Ala	Gln
65					70					75					80
Ala	Val	Asn	Gln	Ile	Ile	Ala	Lys	Glu	Ala	Leu	Thr	Arg	Leu	Gly	Phe
				85				90						95	
Glu	Gly	Glu	Tyr	Val	Ser	Trp	Gln	Thr	Gly	Val	Leu	Trp	Arg	Asp	Thr
			100					105					110		
Leu	Asn	Thr	Ala	Leu	Cys	Ser	Thr	Ser	Leu	Asp	Ala	Leu	Arg	Gln	Ile
		115					120					125			
Lys	Thr	Ala	Asp	Glu	Ile	Asp	Arg	Ile	Arg	Ala	Ala	Cys	Gly	Ile	Ala
	130					135					140				
Asp	Arg	Ala	Ala	Gln	His	Ile	Arg	Arg	Phe	Ile	Gln	Pro	Gly	Met	Arg
145					150					155					160
Glu	Arg	Glu	Val	Ala	Ala	Glu	Leu	Glu	Trp	Phe	Met	Lys	Gln	Glu	Gly
				165				170						175	
Ala	Asp	Lys	Pro	Ser	Phe	Asp	Thr	Ile	Val	Ala	Ser	Gly	Pro	Arg	Gly
			180					185					190		
Ala	Leu	Pro	His	Gly	Lys	Ala	Ser	Asp	Lys	Val	Ile	Met	Pro	Gly	Glu
	195						200					205			
Met	Ile	Thr	Leu	Asp	Phe	Gly	Ala	Gln	His	Gln	Gly	Tyr	Cys	Ser	Asp
	210					215					220				
Met	Thr	Arg	Thr	Phe	Leu	Val	Ala	Gly	Gln	Asn	Thr	Pro	Pro	Glu	Glu
225					230					235					240
His	Leu	Ser	Met	Arg	Cys	Thr	Arg	Ser	Phe	Trp	Arg	His	Asn	Arg	Gln
				245					250					255	
Leu	Leu	Met	Pro	Ser	Ala	Pro	Ala	Phe	Pro	Val	Ile	Arg	Ser	Ile	Ala
			260					265						270	
Pro	Tyr	Val	Pro												
			275												

<210> 9574

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 9574

Gln	Gly	Glu	Thr	Val	Met	Tyr	Gln	Thr	Ile	Ile	Met	Pro	Val	Asp	Val
1				5					10					15	
Phe	Glu	Met	Glu	Leu	Ser	Asp	Lys	Ala	Ile	Arg	His	Ala	Glu	Phe	Leu
			20					25					30		
Ala	Gln	Gln	Asp	Gly	Ile	Ile	His	Leu	Leu	His	Val	Leu	Pro	Gly	Ser
			35				40					45			
Ala	Ser	Leu	Ser	Leu	His	Arg	Phe	Ala	Ala	Asp	Val	Arg	Arg	Phe	Glu
	50					55				60					
Glu	His	Leu	Gln	His	Glu	Ala	Glu	Thr	Arg	Leu	Gln	Thr	Met	Val	Gly
65					70					75					80
His	Phe	Ser	Ile	Asp	Pro	Ser	Arg	Ile	Lys	Thr	His	Val	Arg	Phe	Gly
				85				90						95	
Ser	Val	Arg	Asp	Ala	Val	Asn	Glu	Leu	Ala	Gly	Glu	Leu	Asn	Ala	Asp
			100					105					110		

Val Val Val Ile Gly Ser Arg Asn Pro Ser Ile Thr Thr His Leu Leu
 115 120 125
 Gly Ser Asn Ala Ser Ser Val Ile Arg His Thr His Ile Pro Val Met
 130 135 140
 Val Val Arg
 145

<210> 9575

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 9575

Pro Pro Val His Ser Ser Ala Arg Thr Arg Asp Val Asn Ser Cys Pro
 1 5 10 15
 Ser Gly Glu Pro Ala Lys Arg Gly Pro Trp Ser Asp Pro Gly Leu Ala
 20 25 30
 Ile Arg Lys Glu Gly Leu Arg Thr Ala Ser Val Leu Ser Ser Leu Lys
 35 40 45
 Val Thr Phe Gly Asp Ser Ser Ala Ile Ser Val Ser Ser Ala Leu Ile
 50 55 60
 Ser Ala Asp Phe Ala Leu Ser Ser Ser Val Ala Ile Ser Ser Thr Gly
 65 70 75 80
 Leu Val Ser Phe Ser Arg
 85

<210> 9576

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 9576

Phe His Asn Ile Val Leu Phe Phe Ser Arg His Leu Thr Arg Arg Thr
 1 5 10 15
 Arg Leu Ile Met Ser Ile Tyr Lys Ile Pro Leu Gln Glu Asn Val Leu
 20 25 30
 Asp Ala Ser Ala Glu Arg Ile Asp Trp Thr Leu Asn Asn Phe Ser Arg
 35 40 45
 Val Cys Val Ser Phe Ser Gly Lys Asp Ser Thr Val Met Leu His
 50 55 60
 Leu Val Ala Gln Lys Ala Arg Gln Leu Lys Arg Lys Ile Asp Val Ile
 65 70 75 80
 Phe Leu Asp Trp Glu Ala Gln Phe Ser Ser Thr Ile Gln His Val Asp
 85 90 95
 Thr Met Arg Thr Leu Tyr Arg Asp Val Ile His Leu Phe Trp Trp Val
 100 105 110
 Ala Leu Pro Leu Thr Thr Gln Asn Ala Leu Ser Gln Phe Gln Pro Glu
 115 120 125
 Trp Gln Cys Trp Glu Pro Gly Thr Asn Trp Val Arg Gln Pro Pro Glu
 130 135 140
 Asp Ala Ile Thr Asp Tyr His Tyr Phe Asp Phe Tyr Gln Gln Gly Met
 145 150 155 160
 Thr Phe Glu Ala Phe Val Arg Glu Phe Ala Glu Trp Tyr Ala Gln Arg
 165 170 175
 Arg Pro Ala Ala Val Met Val Gly Ile Pro Ala Asp Glu Ser Tyr Asn
 180 185 190
 Arg Phe Leu Ala Ile Ala Ser Ala Arg Lys Gln Arg Phe Ser Asp Asp
 195 200 205
 Lys Pro Trp Thr Thr Val Ala Pro Gly Gly His Ala Trp Tyr Ile Tyr
 210 215 220
 Pro Leu Tyr Asp Trp Lys Thr Ala Asp Ile Trp Thr Trp Phe Ala Lys

225					230					235				240
Ser	Lys	Cys	Cys	Tyr	Asn	Pro	Leu	Tyr	Asp	Leu	Met	Tyr	Lys	Ala
				245					250					255
Val	Pro	Pro	Arg	Tyr	Met	Arg	Ile	Cys	Glu	Pro	Phe	Gly	Pro	Glu
			260					265					270	Gln
Arg	Gln	Gly	Leu	Trp	Leu	Tyr	His	Val	Ile	Glu	Pro	Glu	Arg	Trp
		275					280					285		Ala
Ala	Met	Cys	Glu	Arg	Ala	Cys	Gly	Val	Arg	Ser	Gly	Gly	Ile	Tyr
	290					295				300				
Gly	His	Asp	Asn	His	Phe	Tyr	Gly	His	Arg	Lys	Ile	Leu	Lys	Pro
305					310					315				320
His	Leu	Gly	Trp	Arg	Glu	Tyr	Ala	Met	Leu	Leu	Leu	Asp	Ser	Met
			325						330					335
Gln	Asn	Thr	Ala	Glu	His	Tyr	Arg	Asn	Lys	Ile	Ala	Val	Tyr	Leu
			340					345					350	His
Trp	Tyr	Gln	Lys	Arg	Gly	Met	Asn	Asp	Ile	Pro	Asp	Thr	Gln	Glu
		355					360					365		Gly
Asp	Ile	Gly	Ala	Lys	Asp	Ile	Pro	Ser	Trp	Arg	Arg	Ile	Cys	Lys
	370					375				380				Val
Leu	Leu	Asn	Asn	Asp	Tyr	Trp	Cys	Arg	Ala	Leu	Ser	Phe	Ser	Pro
385					390					395				400
Lys	Pro	Lys	His	Tyr	Gln	Arg	Tyr	Ser	Asp	Arg	Val	Lys	Ala	Lys
			405						410					415
Lys	Glu	Trp	Gly	Ile	Leu	Cys	Asn	Asn	Glu					
			420				425							

<210> 9577

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 9577

Met	Arg	Asn	Ala	Phe	Thr	Thr	Met	Gly	Glu	Ser	Met	Ile	Arg	Ala	Ile
1				5					10					15	
Val	Thr	Asp	Ile	Glu	Gly	Thr	Thr	Ser	Asp	Ile	Arg	Phe	Val	His	Asp
			20					25					30		
Val	Leu	Phe	Pro	Tyr	Ala	Arg	Glu	Arg	Leu	Ala	Ala	Phe	Val	Thr	Ala
		35					40					45			
Gln	Gln	Tyr	Ala	Glu	Pro	Val	Lys	Ser	Ile	Leu	Asp	Asn	Leu	Arg	Asp
	50					55				60					
Glu	Ile	Ser	Ala	Pro	His	Ala	Ser	Val	Ser	Asp	Leu	Ile	Asn	Val	Leu
					70					75					80
Phe	Thr	Phe	Met	Asp	Glu	Asp	Arg	Lys	Ser	Thr	Ala	Leu	Lys	Ala	Leu
			85						90					95	
Gln	Gly	Ile	Ile	Trp	Gln	Asp	Gly	Tyr	Val	Asn	Gly	Asp	Phe	Thr	Gly
			100				105						110		
His	Leu	Tyr	Pro	Asp	Val	Leu	Pro	Ala	Leu	Glu	Lys	Trp	Lys	Ala	Gln
	115						120					125			
Gly	Ile	Asp	Leu	Tyr	Val	Tyr	Ser	Ser	Gly	Ser	Val	Ala	Ala	Gln	Lys
	130					135					140				
Leu	Leu	Phe	Gly	Tyr	Ser	Asp	Glu	Gly	Asp	Ile	Thr	His	Leu	Phe	Ser
	145				150					155					160
Gly	Tyr	Phe	Asp	Thr	His	Ile	Gly	Ala	Lys	Arg	Glu	Val	Gln	Ser	Tyr
			165						170					175	
Gln	Asn	Ile	Ala	Ala	Gln	Thr	Gly	Ile	Ala	Pro	Ser	Gln	Ile	Leu	Phe
	180						185						190		
Leu	Ser	Asp	Ile	His	Gln	Glu	Leu	Asp	Ala	Ala	Glu	Gln	Ala	Gly	Phe
	195						200					205			
Arg	Thr	Leu	Gln	Leu	Ile	Arg	Gly	Glu	Asp	Asp	Gly	Ala	Ser	His	His
	210					215					220				
His	Gln	Ile	His	Gln	Phe	Asp	Glu	Ile	Asn	Pro	Glu	Gln	Ile	Pro	Ser

225

230

235

240

<210> 9578

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 9578

Asn	Cys	Pro	Ser	Ala	Gly	Asp	Cys	Cys	Asp	Arg	Ala	Val	Pro	Gly	Ile
1				5					10					15	
Arg	Cys	Arg	Gln	Pro	Tyr	His	Leu	Ala	Gly	Tyr	Arg	Gly	Gly	Arg	Arg
			20					25					30		
Leu	His	Ala	Gly	Gly	Val	Met	Ile	Trp	Lys	Arg	His	Leu	Thr	Leu	Glu
		35					40					45			
Glu	Leu	Asn	Ala	Thr	Ser	Leu	Asn	Thr	Met	Val	Gly	His	Leu	Gly	Ile
		50				55					60				
Val	Tyr	Thr	Arg	Leu	Gly	Asp	Asp	Thr	Leu	Glu	Ala	Glu	Met	Pro	Val
65					70					75					80
Asp	Ala	Arg	Thr	His	Gln	Pro	Phe	Gly	Leu	Leu	His	Gly	Gly	Ala	Ser
				85					90					95	
Ala	Ala	Leu	Ala	Glu	Thr	Leu	Gly	Ser	Met	Ala	Gly	Phe	Leu	Met	Thr
			100					105					110		
Arg	Asp	Gly	Gln	Asn	Val	Val	Gly	Thr	Glu	Leu	Asn	Ala	Thr	His	His
		115					120					125			
Arg	Ala	Val	Ser	His	Gly	Lys	Val	Arg	Gly	Val	Cys	Gln	Pro	Leu	His
		130				135					140				
Leu	Gly	Arg	Ser	Ser	Gln	Ser	Trp	Glu	Ile	Val	Val	Phe	Asp	Glu	Gln
145					150					155					160
Gly	Arg	Arg	Cys	Cys	Thr	Cys	Arg	Leu	Ser	Thr	Met	Val	Leu	Gly	
				165					170					175	

<210> 9579

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9579

Gln	Ala	Leu	Thr	Arg	Cys	Tyr	Val	Trp	Thr	Ser	Gly	Trp	Leu	Ile	Ile
1				5					10					15	
Phe	Arg	Phe	Ile	Leu	Cys	Leu	Phe	Arg	Arg	Cys	Gln	Ser	Thr	Gly	Ala
			20					25					30		
Val	Lys	Asn	Ser	Leu	Asn	Gln	Lys	Ser	Asn	Glu	Gly	Phe	Thr	Arg	Met
		35					40					45			
Val	Ser	Ser	Arg	Leu	Glu	Met	Arg	Gly	Ile	Ser	Leu	Ala	Phe	Ser	Gly
		50				55					60				
Phe	Gln	Ala	Leu	Ser	Arg	Val	Asp	Phe	Thr	Leu	Asn	Gly	Gly	Ser	Val
65					70					75					80
His	Ala	Leu	Thr	Gly	Ala	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Met	Ala
				85					90					95	
Val	Leu	Cys	Gly	Thr	His	Asp	His	Tyr	Glu	Gly	Glu	Ile	Cys	Ile	Asn
			100					105					110		
Asn	Gln	Pro	Val	Ser	Ile	Arg	Glu	Pro	Leu	Asp	Ala	Lys	Arg	Leu	Gly
		115					120					125			
Ile	His	Leu	Val	Gln	Gln	Glu	Val	Asp	Val	Ala	Leu	Ile	Pro	Gly	Leu
		130				135					140				
Ser	Ile	Ala	Glu	Asn	Ile	Met	Leu	Asp	Gln	Leu	Ala	Gln	Pro	Gly	His
145					150					155					160
Arg	Tyr	Arg	Trp	Arg	Asp	Ile	Arg	Gln	Gln	Ala	Arg	Gln	Ala	Leu	Ala
				165					170					175	

Gln Leu Asp Val Ser Leu Asp Val Arg Arg Ser Ile Asp Gly Cys Thr
 180 185 190
 Leu Ala Glu Lys Gln Gln Ile Leu Leu Ala Arg Ala Leu Ser His His
 195 200 205
 Cys Arg Phe Leu Ile Leu Asp Glu Pro Thr Ala Pro Leu Asp Ala His
 210 215 220
 Glu Ser Glu Arg Leu Phe Ala Val Val Arg Arg Leu Gln Gln Gln Gly
 225 230 235 240
 Ile Gly Val Val Phe Ile Ser His Arg Ile His Glu Leu Lys Ala Ile
 245 250 255
 Cys Asp Thr Leu Thr Val Leu Arg Asp Gly Arg Leu Ile Glu Ser Gly
 260 265 270
 Pro Met Ala Asp Leu Ser Gly Glu Ala Ile Val Glu Lys Met Leu Gly
 275 280 285
 His Glu Leu Ser Asp Ile Tyr Pro Pro Pro Arg Pro Pro His Gly Asp
 290 295 300
 Glu Thr Leu Leu Arg Val Glu Gly Leu His Asp Asp Ala Leu Leu Lys
 305 310 315 320
 Asp Ile Ser Leu His Leu Arg Lys Gly Glu Ile Leu Gly Ile Ala Gly
 325 330 335
 Leu Ala Gly Ala Gly Lys Thr Glu Leu Cys Lys Ala Leu Phe Gly Ala
 340 345 350
 Ser Lys Ser Arg Val Ala Asn Gly Glu Leu Asn His Gln Asp Trp Lys
 355 360 365
 Pro Arg Asp Pro Ala Asp Ser Val Leu Arg Gly Leu Ala Leu Val Pro
 370 375 380
 Glu Glu Arg Arg Lys Glu Gly Ile Phe Ile Asp Glu Pro Val Ser Met
 385 390 395 400
 Asn Leu Ala Val Cys Ala Asp Asn Ser Phe Ser Arg Trp Ser Leu Phe
 405 410 415
 Gly His Arg Gln Ala Trp Arg Trp Ala Glu Glu Val Ile Ala Arg Val
 420 425 430
 Gly Val Arg Ala Arg Gly Pro Gly Gln Val Leu Arg Arg Leu Ser Gly
 435 440 445
 Gly Asn Gln Gln Lys Val Ala Ile Gly Lys Trp Leu Arg Asn Asp Ala
 450 455 460
 Ser Val Leu Ile Phe Asp Glu Pro Thr Lys Gly Val Asp Val Lys Ala
 465 470 475 480
 Lys Thr Asp Leu Phe Gln Leu Ile Asp Gly Leu Ala Arg Glu Gly Lys
 485 490 495
 Gly Val Ile Tyr Ala Ser Gly Glu Phe Ala Glu Leu Val Gly Leu Cys
 500 505 510
 Asp Arg Ile Cys Val Leu Trp Asp Gly Arg Ile Val Ala Glu Ile Ala
 515 520 525
 Gly Ala Glu Ala Arg Glu Glu Thr Leu Leu Tyr Tyr Ser Thr Gly Gly
 530 535 540
 Thr Ala Ser
 545

<210> 9580

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 9580

Lys Met Lys Lys Ile Ala Leu Ser Leu Val Ala Leu Gly Leu Phe Thr
 1 5 10 15
 Ala Leu Pro Gly Phe Ala Ala Thr Pro Ala Pro Leu Pro Ala Ala Ile
 20 25 30
 Ala Asn His Asp Gly Pro Ile Arg Ile Ala Val Ile Arg Asn Leu Gly
 35 40 45

Ser Asp Asp Asn Thr Thr Gln Phe Val Ala Gly Ala Ile Gln Glu Gly
 50 55 60
 Lys Lys Leu Gly Phe Lys Val Ser Thr Phe Leu Ser Asn Gly Asp Asp
 65 70 75 80
 Ala Lys Phe Gln Asp Phe Val Asn Gln Ala Ile Ser Gln Lys Tyr Asp
 85 90 95
 Gly Ile Ile Leu Ser Gln Gly Arg Asp Pro Tyr Ser Thr Ala Leu Val
 100 105 110
 Lys Lys Ala Val Asp Ala Gly Ile Lys Val Ala Val Phe Asp Thr Ala
 115 120 125
 Val Asn Gly Glu Ile Pro Gly Val Thr Val Thr Gln Gln Asp Asp Ala
 130 135 140
 Ser Leu Thr Asn Leu Ser Phe Gly Gln Leu Ala Lys Asp Phe Asn Gly
 145 150 155 160
 Lys Ala Asn Ile Val Lys Leu Trp Val Ala Gly Phe Pro Pro Met Glu
 165 170 175
 Arg Arg Gln Ala Ala Tyr Lys Glu Leu Gln Lys Gln Tyr Pro Glu Ile
 180 185 190
 Lys Glu Leu Glu Ser Ile Gly Ala Val Ser Ser Asp Val Gln Gly Asp
 195 200 205
 Thr Ala Asn Lys Val Gly Ala Ile Leu Ala Lys Tyr Pro Lys Gly Lys
 210 215 220
 Ile Asp Ala Ile Trp Gly Thr Trp Asp Ala Phe Ser Gln Gly Ala Tyr
 225 230 235 240
 Lys Ala Leu Lys Glu Asn Gly Arg Thr Glu Ile Lys Leu Tyr Ser Ile
 245 250 255
 Asp Ile Ser Asn Gln Asp Leu Gln Leu Met Arg Glu Pro Gly Ser Pro
 260 265 270
 Trp Lys Val Ser Val Ala Val Asp Pro Lys Leu Ile Gly Ala Thr Asn
 275 280 285
 Val Arg Leu Ile Ala Asn Lys Ile Ala Gly Glu Ala Thr Pro Ala Thr
 290 295 300
 Tyr Asp Phe Lys Ala Ala Ala Ile Pro Gln Ala Leu Leu Thr Ala Gln
 305 310 315 320
 Pro Gly Ala Val Asn Val Ala Ser Leu Gly Lys Ile Ile Pro Gly Trp
 325 330 335
 Gly Gln Thr Glu Asp Phe Ile Ala Pro Trp Phe Ala Thr Leu Glu Ala
 340 345 350
 Lys Asn Lys
 355

<210> 9581

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 9581

Thr Ser Ile His Leu Asp Phe Ile Leu Thr Gln Cys Ala Thr Thr Thr
 1 5 10 15
 Gln Gln Gly Ile Asn Asp Met Gln Thr Leu Gln Thr Thr Ser Leu Arg
 20 25 30
 Val Ala Asn Asn Gln Leu Phe Ile Leu Asp Gln Gln Ala Leu Pro Gln
 35 40 45
 Glu Lys Arg Trp Val Asp Ala Ser Thr Val Glu Ala Leu Val Gly His
 50 55 60
 Ile His Ala Leu Arg Val Arg Gly Ala Pro Leu Ile Gly Leu Ser Ala
 65 70 75 80
 Ser Leu Leu Leu Ala Leu Leu Ala Glu Asn Gly Lys Ser Arg Asp Glu
 85 90 95
 Leu Ala Val Ala Leu Glu Thr Leu Arg Ala Ser Arg Pro Thr Ala Val
 100 105 110


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Asn Leu Met Asn Asn Leu Asp Arg Met Lys Leu Ala Leu Trp Glu Glu
115 120 125
Asp Phe Val Pro Ala Leu Val Ala Glu Ala Leu Arg Leu Ile Asp Glu
130 135 140
Asp Lys Arg Leu Cys Asp Ala Ile Ala Lys Ala Gly Ser Ala Leu Val
145 150 155 160
Lys Pro Gly Ser Arg Leu Leu Thr His Cys Asn Thr Gly Gly Leu Ala
165 170 175
Thr Ala Gly Val Gly Thr Ala Leu Gly Val Ile Ala Arg Ala His Lys
180 185 190
Glu Gly Lys Val Ser Asn Val Trp Val Asp Glu Thr Arg Pro Leu Leu
195 200 205
Gln Gly Gly Arg Leu Thr Ala Trp Glu Leu Gly Glu Leu Gly Val Pro
210 215 220
Tyr Gln Leu Ile Thr Asp Ser Met Ala Ala Ser Leu Met Ala Lys Gly
225 230 235 240
Gln Val Asp Ala Val Trp Val Gly Ala Asp Arg Ile Ala Ala Asn Gly
245 250 255
Asp Val Ala Asn Lys Ile Gly Thr Tyr Ser Leu Ala Val Leu Ala Lys
260 265 270
Phe His Gly Ile Pro Phe Tyr Val Ala Ala Pro Gln Thr Thr Leu Asp
275 280 285
Pro Asp Cys Pro Asn Gly Asp Ala Ile Pro Ile Glu Gln Arg Ala Ala
290 295 300
Ser Glu Val Thr Gly Val Ala Gly Ser Phe Gly Ala Val Gln Trp Ala
305 310 315 320
Pro Gln Asn Ala Gln Val Tyr Asn Pro Ala Phe Asp Val Thr Pro Ala
325 330 335
Ser Leu Ile Ser Gly Trp Val Leu Asp Thr Gly Val Val Thr Pro Asp
340 345 350
Glu Val Ala Glu Gly Lys Phe Ala
355 360

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<210> 9582

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9582

```

Pro Arg Trp Ile Lys Leu Val Thr Leu His Leu Asp Glu Asn Thr Glu
1 5 10 15
Glu Val Gln Met Ser Leu Ile Asn Thr Lys Ile Lys Pro Phe Lys Asn
20 25 30
Gln Ala Phe Lys Asn Gly Glu Phe Ile Glu Val Thr Glu Lys Asp Ile
35 40 45
Glu Gly Arg Trp Ser Val Phe Phe Phe Tyr Pro Ala Asp Phe Thr Phe
50 55 60
Val Cys Pro Thr Glu Leu Gly Asp Val Ala Asp His Tyr Glu Glu Leu
65 70 75 80
Gln Lys Leu Gly Val Asp Val Tyr Ser Val Ser Thr Asp Thr His Phe
85 90 95
Thr His Lys Ala Trp His Ser Ser Ser Glu Thr Ile Ala Lys Ile Lys
100 105 110
Tyr Ala Met Ile Gly Asp Pro Thr Gly Ala Leu Thr Arg Asn Phe Asp
115 120 125
Asn Met Arg Glu Asp Glu Gly Leu Ala Asp Arg Ala Thr Phe Val Val
130 135 140
Asp Pro Gln Gly Ile Ile Gln Ala Ile Glu Val Thr Ala Glu Gly Ile
145 150 155 160
Gly Arg Asp Ala Ser Asp Leu Leu Arg Lys Val Lys Ala Ala Gln Tyr
165 170 175

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Val	Ala	Ser	His	Pro	Gly	Glu	Val	Cys	Pro	Ala	Lys	Trp	Lys	Glu	Gly
			180					185					190		
Glu	Ala	Thr	Leu	Ala	Pro	Ser	Leu	Asp	Leu	Val	Gly	Lys	Ile		
		195					200					205			

<210> 9583

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 9583

Ile	Phe	Gly	Asn	Lys	Pro	Gly	Val	Pro	Ile	His	Ala	Glu	Arg	Lys	Phe
1			5					10						15	
Arg	Tyr	Ala	Gly	Lys	Thr	Glu	Pro	Gly	Gln	Cys	Ala	Leu	Gln	Pro	Gln
		20					25						30		
Arg	Arg	Glu	Ser	Asp	Met	Tyr	Phe	Tyr	Gln	Pro	Ser	Gln	Gly	His	Gly
		35					40					45			
Leu	Pro	His	Asp	Pro	Leu	Asn	Ala	Ile	Ile	Gly	Pro	Arg	Pro	Ile	Gly
	50					55				60					
Trp	Ile	Ser	Ser	Cys	Asp	Arg	Ala	Gly	Gln	Leu	Asn	Leu	Ala	Pro	Tyr
65					70				75						80
Ser	Phe	Phe	Asn	Cys	Phe	Asn	Tyr	Arg	Pro	Pro	Ile	Ile	Gly	Phe	Ser
			85					90						95	
Ser	Asn	Gly	Trp	Lys	Asp	Ser	Val	Arg	Asn	Ile	Thr	Glu	Thr	Gly	Glu
			100					105					110		
Phe	Val	Trp	Asn	Leu	Ala	Thr	Arg	Asp	Leu	Ala	Glu	Ala	Met	Asn	Glu
		115					120					125			
Thr	Ser	Ala	Thr	Leu	Pro	His	Gly	Glu	Asp	Glu	Phe	Thr	Phe	Ala	Gly
	130					135					140				
Leu	Thr	Pro	Val	Ala	Ser	Gln	Leu	Val	Ser	Ser	Pro	Arg	Val	Ala	Glu
145					150					155					160
Ser	Pro	Val	Asn	Phe	Glu	Cys	Arg	Leu	Ser	Gln	Cys	Ile	Gln	Leu	Thr
			165					170						175	
Gly	Ala	Asp	Gly	Thr	Pro	Ile	Asp	Thr	Trp	Leu	Val	Leu	Gly	Glu	Val
			180				185						190		
Val	Gly	Val	His	Ile	Ala	Glu	Ser	Leu	Leu	Glu	Glu	Gly	Ile	Tyr	Gln
	195					200						205			
Thr	Ala	Lys	Ala	Gln	Pro	Ile	Leu	Arg	Ala	Gly	Gly	Pro	Thr	Ala	Tyr
	210					215					220				
Tyr	Ala	Ile	Ser	Asp	Ser	His	Arg	Phe	Asp	Leu	Val	Arg	Pro	Asp	Ala
225					230					235					240
Arg	Arg	Gly													

<210> 9584

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 9584

Arg	Tyr	Gly	Trp	Arg	Asp	Val	Gln	Arg	Gly	Ser	Ala	Thr	Val	Pro	Val
1				5					10					15	
Lys	Thr	Ser	Gly	Gln	Gly	Leu	Arg	Arg	Arg	Cys	Phe	Pro	Leu	Tyr	Ala
		20					25						30		
Gly	Gly	Gly	Ser	Thr	Asp	Ala	Ala	Gln	Ala	Arg	Thr	His	Cys	Pro	Gly
		35				40						45			
Ala	Asn	Ala	Gly	Gly	Ala	Val	Ser	Gly	Cys	Ala	Asn	Gly	Val	Ala	Ala
	50					55					60				
Thr	Ala	Gly	Arg	Gly	Thr	Thr	Val	Ala	Ala	Ser	Thr	Ala	Gly	Gly	Thr
65				70					75						80
Asp	Gly	Ala	Ile	Ser	Leu	Trp	Thr	Val	Gly	Ala	Ser	Gly	Pro	Ala	Gly

				85				90					95				
Gly	Ala	Ser	Trp	Arg	Thr	Gly	Tyr	Gly	Thr	Gly	Gly	Glu	Pro	Gly	Gly		
			100					105					110				
Ala	Arg	Asn	Gly	Ala	Asn	Leu	Gly	Cys	Arg	Glu	Leu	Ala	Asp	Pro	Ala		
		115					120					125					
Gly	Ala	Gly	Ala	Met	Lys	Lys	Thr	Thr	Leu	Met	Ala	Ile	Ala	Ile	Ala		
		130				135					140						
Ile	Ala	Ala	Ala	Gly	Gly	Tyr	Phe	Val	Gly	Gln	Lys	Gln	Thr	His	Gln		
145					150					155					160		
Pro	Ala	Ala	Ala	Ala	Gln	Pro	Ser	Glu	Arg	Lys	Val	Leu	Tyr	Trp	Tyr		
				165					170					175			
Asp	Pro	Met	Val	Pro	Gly	Gln	Arg	Phe	Asp	Lys	Pro	Gly	Lys	Ser	Pro		
			180					185					190				
Phe	Met	Asp	Met	Asp	Leu	Val	Pro	Arg	Tyr	Ala	Asp	Glu	Ala	Gln	Ala		
		195					200					205					
Ala	Ser	Gly	Val	Ala	Ile	Ser	Thr	Gln	Gln	Gln	Gln	Asn	Leu	Gly	Met		
		210				215					220						
Lys	Thr	Ala	Asn	Val	Glu	Met	Arg	Gln	Leu	Val	Ser	Pro	Phe	Ser	Ala		
225					230					235					240		
Phe	Ala	Thr	Val	Ala	Thr	Asp	Glu	Arg	Asn	Val	Ser	Val	Val	Ser	Ala		
				245				250						255			
Pro	Ala	Asn	Gly	Val	Val	Ser	Lys	Leu	Phe	Val	Asn	Ala	Pro	Gln	Gln		
		260						265					270				
Gln	Val	Lys	Ala	Gly	Glu	Ala	Leu	Ala	Gln	Leu	Trp	Ile	Pro	Gln	Trp		
		275				280						285					
Thr	Thr	Ala	Gln	Gln	Glu	Tyr	Leu	Ala	Val	Arg	Gln	Leu	Gly	Asp	Ala		
		290				295					300						
Ala	Leu	Thr	Arg	Ala	Ala	Arg	Glu	Arg	Leu	Ala	Leu	Gln	Phe	Met	Pro		
305					310					315					320		
Glu	Glu	Val	Ile	Arg	Leu	Leu	Glu	Arg	Ser	Gly	Lys	Pro	Gln	Thr	Thr		
				325					330					335			
Leu	Ile	Leu	Arg	Ala	Asp	Gln	Ala	Gly	Tyr	Val	Val	Lys	Leu	Asp	Val		
			340					345					350				
Arg	Glu	Gly	Ala	Gln	Ile	Thr	Ala	Thr	Ala	Pro	Leu	Phe	Glu	Ile	Ala		
		355					360					365					
Arg	Leu	Asp	Pro	Val	Trp	Leu	Val	Val	Asp	Tyr	Pro	Gln	Thr	Gln	Ala		
		370				375					380						
Gln	Ser	Leu	Ala	Val	Gly	Ser	Asn	Val	Val	Ala	Thr	Ser	Glu	Ser	Trp		
385					390					395					400		
Pro	Gly	Glu	Gln	Phe	His	Gly	Thr	Val	Ser	Glu	Leu	Leu	Pro	Gln	Met		
				405					410					415			
Glu	Thr	Thr	Thr	Arg	Thr	Leu	Lys	Ala	Arg	Ile	Val	Leu	Glu	Asn	Ser		
			420					425					430				
Ala	His	Lys	Leu	Lys	Pro	Gly	Met	Tyr	Leu	Ser	Val	Arg	Arg	Ala	Glu		
		435					440					445					
Glu	Met	Lys	Gly	Pro	Pro	Val	Leu	Ala	Val	Pro	Glu	Glu	Ala	Val	Ile		
		450				455					460						
Asn	Ser	Gly	Glu	Ser	Ala	Arg	Leu	Leu	Leu	Ala	Thr	Gly	Asp	Gly	Tyr		
465					470					475					480		
Phe	Arg	Pro	Val	Thr	Val	Thr	Thr	Gly	Leu	Thr	Ala	Gln	Gly	Trp	Thr		
				485				490						495			
Ala	Ile	Leu	Ser	Gly	Val	Lys	Gln	Gly	Asp	Lys	Val	Val	Thr	Ser	Gly		
			500					505					510				
Gln	Phe	Leu	Ile	Asp	Ser	Glu	Ala	Ser	Leu	Arg	Ser	Val	Met	Pro	Glu		
		515					520					525					
Val	Thr	Pro															
		530															

<210> 9585

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9585

Ile Ser Gln Ala Gly Ala Arg Arg Gly Lys Tyr Gly Ala Asp Ala Gly
 1 5 10 15
 Asp Pro Arg Arg Cys Arg Ala Ala Arg Ala Ser Glu Gly Asp Asp Gly
 20 25 30
 Arg His Tyr Tyr Gly Arg Thr Ala Ala His His Val Gly Glu Trp Glu
 35 40 45
 Trp Leu Gly Gly Asp Ala Thr Tyr Cys Arg Ala Asp Asp Trp Trp His
 50 55 60
 Gly Asn Gly Thr Val Ile Val Asp Val Ser Tyr Ser Arg Thr Leu Gln
 65 70 75 80
 Ile Val Thr Ser Thr Leu Asn Met Ser Thr Ala Cys Ala Tyr Ser Gly
 85 90 95
 Met Gln Phe Met Tyr Pro Gln Ile Ile Pro Arg Asn Gly Met Val Ile
 100 105 110
 Arg Asn Asn Thr His Ala Val Lys Arg Ser Phe Lys Tyr Ser Val Leu
 115 120 125
 Arg Ser Ala Pro Asn Thr Lys Tyr Gly Asn Gly Ile Val Ile Val Arg
 130 135 140
 Ile Lys Phe Pro Leu Ile Leu Leu Phe Ile Ile Gly Gln Leu Ser Cys
 145 150 155 160
 Ala Phe Ala Val Asn Ala Asp Ser Asn Thr Ala Asp Lys Gly Trp Phe
 165 170 175
 Thr Thr Phe Thr Asp Asn Val Ala Gln Thr Trp Asn Glu Pro Glu His
 180 185 190
 Tyr Asp Leu Tyr Ile Pro Ala Ile Thr Trp His Ala Arg Phe Ala Tyr
 195 200 205
 Asp Lys Glu Lys Thr Asp Arg Tyr Asn Glu Arg Pro Trp Gly Ala Gly
 210 215 220
 Phe Gly Gln Ser Arg Trp Asp Glu Lys Gly Asn Trp His Gly Leu Tyr
 225 230 235 240
 Leu Met Ala Phe Lys Asp Ser Tyr Asn Lys Trp Glu Pro Ile Gly Gly
 245 250 255
 Tyr Gly Trp Glu Lys Thr Trp Arg Pro Leu Ser Asp Asp Asn Phe Arg
 260 265 270
 Leu Gly Leu Gly Tyr Thr Ala Gly Phe Thr Ala Arg Asp Asn Trp Lys
 275 280 285
 Tyr Ile Pro Val Pro Val Leu Leu Pro Leu Ala Ser Ile Gly Tyr Gly
 290 295 300
 Pro Ala Thr Phe Gln Met Thr Tyr Ile Pro Gly Thr Tyr Asn Asn Gly
 305 310 315 320
 Asn Val Tyr Phe Ala Trp Met Arg Phe Gln Phe
 325 330

<210> 9586

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 9586

Thr Leu Gly Leu Ser Ser Ile Arg Arg Gly Arg Phe Ala Arg Arg Trp
 1 5 10 15
 Thr Ala Gly Arg Cys Gly Ile Arg Leu Ala Asp Glu Asn Ile Asn Asp
 20 25 30
 Asn His Tyr Cys Phe Phe Tyr His Phe Lys Glu Asp Asp Met Asp Thr
 35 40 45
 Ser Leu Ala Glu Glu Val Gln His Thr Ala Thr Thr Leu Gln Ala Asp
 50 55 60
 Ser Phe Phe Phe Met Ser Pro Tyr Arg Ser Phe Thr Thr Ser Gly Cys

65					70					75				80	
Phe	Ala	Arg	Phe	Ser	Glu	Pro	Ala	Val	Gly	Gly	Asp	Asp	Pro	Ala	Gly
				85					90					95	
Pro	Phe	Gln	Gln	Lys	Leu	Ala	Gln	Ala	Phe	Arg	Asn	Ala	Lys	Asn	Ser
			100					105					110		
Gly	Ile	Ala	His	Pro	Val	Met	Val	Gly	Ala	Ile	Pro	Phe	Asp	Thr	Arg
		115					120					125			
Lys	Pro	Ser	Ser	Leu	Phe	Ile	Pro	Gln	Arg	Trp	Gln	Thr	Phe	Ser	Arg
	130					135					140				
Pro	Ala	Arg	Gln	Gln	Ser	Ala	Arg	Tyr	Ala	Ser	Gly	Ala	Gln	Thr	Leu
145					150					155					160
Asn	Val	Gln	Gln	Arg	Thr	Glu	Ile	Pro	Pro	Gln	Pro	Ile	Phe	Glu	Glu
				165					170					175	
Met	Val	Ala	Arg	Ala	Ala	Ser	Leu	Thr	Ala	Thr	Pro	Gln	Val	Asn	Lys
			180					185					190		
Val	Val	Leu	Ser	Arg	Leu	Ile	Asp	Ile	Ala	Thr	Asp	Lys	Gln	Ile	Asp
		195					200					205			
Ser	Ser	Ala	Leu	Met	Glu	Arg	Leu	Ile	Ala	Gln	Asn	Pro	Ala	Ser	Phe
	210					215					220				
Asn	Phe	His	Val	Pro	Leu	Glu	Asp	Gly	Gly	Val	Leu	Leu	Gly	Ala	Ser
225					230					235					240
Pro	Glu	Leu	Leu	Leu	Arg	Lys	Glu	Gly	Ala	His	Phe	Ser	Ser	Leu	Pro
				245					250					255	
Leu	Ala	Gly	Ser	Ala	Arg	Arg	Gln	Pro	Asp	Asp	Val	Leu	Asp	Arg	Glu
			260					265					270		
Ala	Gly	Thr	Lys	Leu	Leu	Ala	Ser	Glu	Lys	Asp	Arg	His	Glu	His	Asp
		275					280					285			
Leu	Val	Thr	Gln	Ala	Met	Lys	Thr	Ile	Leu	Glu	Pro	Arg	Ser	His	His
	290					295					300				
Leu	Ser	Met	Pro	Ala	Ser	Pro	Gln	Leu	Ile	Thr	Thr	Pro	Thr	Leu	Trp
305					310					315					320
His	Leu	Ala	Thr	Pro	Val	Glu	Gly	Asp	Ala	Arg	Glu	Asn	Glu	Asn	Ala
				325					330					335	
Leu	Thr	Leu	Ala	Cys	Leu	Leu	His	Pro	Thr	Pro	Ala	Leu	Ser	Gly	Phe
			340					345					350		
Pro	His	Gln	Ala	Ala	Lys	Glu	Leu	Ile	Ala	Glu	Leu	Glu	Pro	Phe	Asp
		355					360					365			
Arg	Glu	Leu	Phe	Gly	Gly	Ile	Val	Gly	Trp	Cys	Asp	Ser	Glu	Gly	Asn
	370					375					380				
Gly	Glu	Trp	Val	Val	Thr	Ile	Arg	Cys	Ala	Arg	Leu	His	Gln	Asn	Thr
385					390					395					400
Val	Arg	Leu	Phe	Ala	Gly	Ala	Gly	Ile	Val	Pro	Ala	Ser	Ser	Pro	Val
			405						410					415	
Gly	Glu	Trp	Arg	Glu	Thr	Gly	Val	Lys	Leu	Ser	Thr	Met	Leu	Asn	Val
			420					425					430		
Phe	Gly	Leu	His												
		435													

<210> 9587

<211> 540

<212> PRT

<213> Enterobacter cloacae

<400> 9587

Gly	Ile	Leu	Met	Thr	Ile	Pro	Phe	Thr	Arg	Trp	Pro	Glu	Asp	Phe	Ala
1				5					10					15	
Arg	Arg	Tyr	Arg	Glu	Lys	Gly	Tyr	Trp	Gln	Asp	Leu	Pro	Leu	Thr	His
			20					25					30		
Ile	Leu	Thr	Asp	His	Ala	Asp	Ser	Asp	Ala	Val	Ala	Ile	Ile	Asp	Gly
		35					40					45			
Asp	Arg	Arg	Ile	Thr	Tyr	Arg	Ala	Phe	Asn	Gln	Ala	Val	Thr	Asn	Leu

50	55	60
Ala Ser Ala Leu Gln	Ala Gln Gly Leu His Arg	Gly Glu Thr Ala Leu
65	70	75
Val Gln Leu Gly Asn	Val Ala Glu Phe Tyr Ile	Thr Phe Phe Ala Leu
85	90	95
Leu Gln Ile Gly Val	Ala Pro Val Asn Ala Leu Phe Ser	His Gln Arg
100	105	110
Ser Glu Leu Asn Ala Tyr	Ala Glu Gln Ile Lys Pro	Ala Val Leu Ile
115	120	125
Ala Asp Arg Asp His	Ala Leu Phe Ser Gly Asp	Asp Phe Leu Asn Thr
130	135	140
Phe Val Asp Ala His	Arg Ser Val Arg Val	Val Leu Arg Gly Asp
145	150	155
Lys Gly Glu His Ala	Leu Glu Ala Ala Ile	Ser Arg Pro Ala Asp Asn
165	170	175
Phe Ile Pro Asn Pro	Thr Pro Ala Asp Glu	Val Ala Phe Phe Gln Leu
180	185	190
Ser Gly Gly Ser Thr	Gly Thr Pro Lys Leu Ile	Pro Arg Thr His Asn
195	200	205
Asp Tyr Asp Tyr Ser	Ile Arg Ser Asn Glu Ile	Cys Gly Ile Thr
210	215	220
Ala His Thr Arg Tyr	Leu Asn Ala Leu Pro	Ala Ala His Asn Tyr Ala
225	230	235
Met Ser Ser Pro Gly	Ser Leu Gly Val Phe	Thr Ala Gly Gly Cys Val
245	250	255
Val Leu Ala Asn Asp	Pro Ser Ala Thr Leu	Cys Phe Pro Leu Ile Glu
260	265	270
Gln His Gln Ile Asn	Val Thr Ser Leu Val	Pro Pro Ala Val Ser Leu
275	280	285
Trp Leu Gln Ala Ile	Ala Asp Gly Ala Gly	Asn Ala Gln Leu Lys Ser
290	295	300
Leu Glu Leu Leu Gln	Val Gly Gly Ala Arg	Leu Ser Ala Thr Leu Ala
305	310	315
Ala Arg Ile Pro Ala	Glu Ile Gly Cys Gln	Leu Gln Gln Val Phe Gly
325	330	335
Met Ala Glu Gly Leu	Val Asn Tyr Thr Ala	Leu Asp Asp Ala Pro Glu
340	345	350
Arg Ile Ile Asn Thr	Gln Gly Arg Pro Met	Cys Pro Asp Asp Glu Val
355	360	365
Trp Val Ala Asp Glu	Asp Gly Asn Pro Leu	Pro Arg Gly Glu Val Gly
370	375	380
Arg Leu Met Thr Arg	Gly Pro Tyr Thr Phe	Arg Gly Tyr Phe Asn Ser
385	390	395
Pro Glu His Asn Ala	Ser Ala Phe Asp Ala	Asn Gly Phe Tyr Cys Ser
405	410	415
Gly Asp Leu Ile Ala	Ile Asp Glu Gln Gly	Tyr Ile Thr Val Gln Gly
420	425	430
Arg Glu Lys Asp Gln	Ile Asn Arg Gly Gly	Glu Lys Ile Ala Ala Glu
435	440	445
Glu Ile Glu Asn Leu	Leu Leu Arg His Asp	Ala Val Ile His Ala Ala
450	455	460
Leu Val Ser Met Glu	Asp Ser Leu Leu Gly	Glu Lys Ser Cys Ala Tyr
465	470	475
Leu Val Val Lys Gln	Pro Leu Arg Ala Val	Glu Val Arg Arg Phe Leu
485	490	495
Arg Glu Gln Gly Val	Ala Glu Phe Lys Leu	Pro Asp Arg Val Glu Ser
500	505	510
Val Asp Ala Leu Pro	Leu Thr Pro Val Gly	Lys Val Asp Lys Lys Gln
515	520	525
Leu Arg Leu Trp Leu	Ala Glu Arg Ala Arg	Gly
530	535	540

<210> 9588
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 9588

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Phe Arg Asp Ala Gly Lys Lys Ser Asp Pro Arg Cys Leu Val Gly Ala
1      5      10      15
Ala Leu Pro Arg Gly Glu Val Met Ala Phe Asp Phe Thr Gly Lys Thr
20      25      30
Val Trp Val Thr Gly Ala Gly Lys Gly Ile Gly Tyr Ala Thr Ala Leu
35      40      45
Ala Phe Val Glu Ala Gly Ala Gln Val Thr Gly Phe Asp Leu Ala Phe
50      55      60
Pro His Gly Glu Tyr Pro Phe Ala Thr Glu Thr Leu Asp Val Ala Asp
65      70      75      80
Ala Ala Gln Ala Ser Asp Val Cys Gly Arg Leu Leu Ser Ser Leu Glu
85      90      95
Arg Leu Asp Val Leu Val Asn Ala Ala Gly Ile Leu Arg Met Gly Ala
100     105     110
Thr Asp Gln Leu Ser Pro Glu Asp Trp Gln Gln Thr Phe Ala Val Asn
115     120     125
Val Gly Gly Ala Phe Asn Leu Phe Gln Gln Thr Met Gly Gln Phe Arg
130     135     140
Arg Gln Gln Gly Gly Ala Ile Val Thr Val Ala Ser Asp Ala Ala His
145     150     155     160
Thr Pro Arg Ile Gly Met Ser Ala Tyr Gly Ala Ser Lys Ala Ala Leu
165     170     175
Lys Ser Leu Ala Leu Thr Val Gly Leu Glu Leu Ala Gly Ser Gly Val
180     185     190
Arg Cys Asn Leu Val Ser Pro Gly Ser Thr Asp Thr Asp Met Gln Arg
195     200     205
Thr Leu Trp Thr Ser Asp Asp Ala Glu Gln Arg Arg Ile Arg Gly Phe
210     215     220
Gly Glu Gln Phe Lys Leu Gly Ile Pro Leu Gly Lys Ile Ala Arg Pro
225     230     235     240
Gln Glu Ile Ala Ala Thr Val Leu Phe Leu Ala Ser Asp Ala Ala Ser
245     250     255
His Ile Thr Leu Gln Asp Ile Val Val Asp Gly Gly Ser Thr Leu Gly
260     265     270
Ala

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<210> 9589
 <211> 366
 <212> PRT
 <213> Enterobacter cloacae

<400> 9589

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Ile Ser Ser Val Asp Cys His Ser Ala Phe Ser Leu Pro Ala Arg Met
1      5      10      15
Gly His Arg Leu Ile Pro Gly Trp Cys Ser Ala Lys Ser Trp Ala Ser
20      25      30
Ile Ser Pro Arg Val Cys Trp Lys Arg Gly Phe Thr Arg Pro Arg Lys
35      40      45
Arg Ser Pro Phe Cys Val Arg Val Asp Arg Arg Pro Thr Met Pro Ser
50      55      60
Val Ile Ala Ile Ala Ser Thr Trp Tyr Ala Arg Met Arg Ala Gly Gly
65      70      75      80
Asn Met Arg Ala Thr Leu Leu Pro Ala Asp Gln Gln Phe Phe Ala Asp

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				85					90				95				
Leu	Leu	Ser	Gly	Leu	Val	Leu	Asn	Pro	Gln	Gln	Leu	Gly	Arg	Val	Trp		
			100					105					110				
Phe	Ala	His	Arg	Gly	Ala	Ser	Asp	Ala	Val	Gly	Ser	Val	Ser	Arg	Asp		
		115					120					125					
Trp	Pro	Arg	Leu	Asp	Val	Val	Leu	Arg	Gly	Glu	Tyr	Gly	Asn	Arg	Leu		
		130				135					140						
Val	Ala	Gly	Gln	Gln	Pro	Leu	His	Gln	Gly	Glu	Met	Leu	Phe	Leu	Pro		
145					150					155					160		
Ala	Gln	Ala	Ala	Ser	Val	Pro	Val	Phe	Glu	Arg	Pro	Val	Met	Leu	Leu		
				165					170					175			
Ser	Ile	Leu	Phe	Ala	Pro	Ser	Trp	Leu	Gly	Leu	Val	Phe	His	Asp	Thr		
		180						185					190				
Arg	His	Gly	Arg	Ser	Val	Pro	Ala	Gln	Arg	His	Val	Glu	Leu	Pro	His		
		195				200						205					
Pro	Glu	Arg	Gly	Glu	Cys	Ala	Ala	Met	Leu	Met	Ala	Leu	Thr	His	Leu		
	210				215					220							
Ser	Ala	Ser	Pro	Gln	Asp	Gln	Ala	Ile	Ile	Gln	Pro	Leu	Val	Leu	Ser		
225				230						235					240		
Leu	Leu	His	Trp	Cys	Arg	Lys	Val	Val	Ser	Ser	Leu	Pro	Glu	Pro	Gly		
				245				250						255			
Val	Ser	Arg	Gly	Asp	Phe	Leu	Tyr	Gln	Ser	Ile	Cys	Asn	Trp	Val	Gln		
			260					265					270				
Glu	Asn	Tyr	Ala	Glu	Pro	Leu	Ser	Arg	Asp	Ser	Val	Ala	Ser	Leu	Phe		
		275					280					285					
Asn	Ile	Ser	Ala	Asn	His	Leu	Ser	Arg	Leu	Phe	Ser	Gln	Gln	Gly	Thr		
	290					295					300						
Met	Ser	Phe	Val	Asp	Tyr	Val	Arg	Trp	Val	Arg	Met	Ala	Lys	Ala	Arg		
305				310						315					320		
Thr	Ile	Leu	Gln	Lys	Tyr	His	Leu	Pro	Val	Gly	Glu	Val	Ala	Lys	Arg		
				325					330					335			
Cys	Gly	Tyr	Ala	Asp	Ser	Asp	Tyr	Phe	Ser	Arg	Leu	Phe	Arg	Arg	Gln		
			340					345					350				
Phe	Gly	Leu	Thr	Pro	Gly	Glu	Tyr	Arg	Ala	Arg	Phe	Gln					
		355					360					365					

<210> 9590

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 9590

Arg	Phe	Gln	Asp	Tyr	Leu	Ala	Asp	Ala	Ser	Thr	Leu	Ser	Glu	Val	Thr		
1				5					10					15			
Met	Lys	Gln	His	Thr	Leu	Ser	Leu	Trp	Leu	Gly	Gly	Val	Leu	Phe	Gly		
			20					25					30				
Leu	Leu	Thr	Ser	Ala	Ala	Gln	Ala	Glu	Pro	Trp	Thr	Leu	Glu	His	Thr		
		35				40						45					
Leu	Thr	Glu	Ala	Gln	Arg	Tyr	Ser	Ala	Glu	Leu	Ser	Ala	Ser	Arg	Asn		
	50					55					60						
Glu	Ala	Gln	Ala	Leu	Asp	Ala	Met	Ala	Val	Ser	Ala	Thr	Gln	Leu	Pro		
65				70					75					80			
Asp	Pro	Lys	Leu	Lys	Phe	Gly	Ile	Glu	Asn	Val	Pro	Val	Gln	Gly	Ser		
				85				90					95				
Asn	Asp	Arg	Arg	Leu	Thr	Arg	Glu	Gly	Met	Thr	Met	Gln	Lys	Val	Gly		
			100					105				110					
Ile	Met	Gln	Ser	Tyr	Val	Ser	Ser	Glu	Lys	Arg	Glu	Arg	Lys	Ala	Gln		
		115					120					125					
Thr	Leu	Gln	Ala	Gln	Ala	Arg	Ser	Val	Leu	Ala	Lys	Ser	Glu	Ala	Val		
	130					135					140						
Arg	Ala	Ala	Leu	Gln	Arg	Asp	Thr	Ala	Gln	Ala	Trp	Leu	Asp	Leu	Ala		

145					150					155				160
Leu	Ala	Gln	Gln	Ala	Leu	Asn	Thr	Ala	Arg	Thr	Leu	Val	Arg	Glu Thr
				165					170					175
Glu	Arg	Gln	Arg	Gly	Val	Gln	Lys	Ala	Ser	Val	Gly	Ala	Gly	Ser Ala
				180				185					190	
Met	Pro	Asp	Ser	Val	Leu	Ala	Leu	Gln	Met	Ile	Leu	Ser	Ala	Met Arg
		195					200				205			
Asp	Lys	Glu	Thr	Leu	Ala	Gln	Arg	Asp	Val	Gln	Leu	Ala	Gln	Ser Arg
	210					215				220				
Leu	Leu	Glu	Leu	Thr	Gly	His	Ala	Ile	Thr	Glu	Val	Arg	Gly	Pro Leu
225					230				235					240
Pro	Arg	Tyr	Gln	Arg	Leu	Pro	Ala	Asn	Glu	Lys	Thr	Leu	Gln	Glu Gly
				245					250					255
Ile	Val	Arg	His	Pro	Glu	Val	Glu	Ala	Ala	Arg	Arg	Glu	Ala	Glu Thr
			260					265					270	
Ala	Lys	Ala	Arg	Ser	Ala	Gln	Ser	Ala	Val	Ala	Ala	Ile	Pro	Asp Val
		275					280					285		
Asp	Val	Glu	Val	Tyr	Tyr	Ala	His	Arg	Ala	Glu	Gly	Tyr	Asp	Asp Met
	290					295					300			
Ala	Gly	Val	Met	Phe	Ser	Val	Asp	Leu	Pro	Leu	Phe	Gln	Ser	Lys Arg
305					310				315					320
Gln	Asp	Lys	Asp	Tyr	Ala	Ala	Asp	Val	Ser	Arg	Ser	Met	Gln	Ala Ala
				325					330					335
Asp	Gln	Leu	Thr	Leu	Leu	Lys	Arg	Glu	His	Ile	Ala	Gln	Val	Gln Thr
			340					345					350	
Leu	Val	Ala	Gln	Tyr	Gln	Ala	Ala	Gln	Thr	Val	Trp	Gln	Arg	Gln Arg
		355					360					365		
Asp	Glu	Val	Leu	Pro	Leu	Gln	Arg	Gln	Arg	Leu	Ala	Val	Leu	Thr Ala
	370					375					380			
Gln	Tyr	Arg	Ser	Gly	Gln	Ser	Ala	Leu	Pro	Ala	Leu	Leu	Glu	Ala Arg
385					390				395					400
Arg	Gly	Val	Leu	Asp	Thr	Glu	Leu	Ala	Val	Asn	Gln	Ala	Glu	Arg Glu
				405					410					415
Met	Ala	Arg	Thr	Trp	Ala	Ala	Val	Asn	Trp	Leu	Ile	Pro	Gln	Glu Leu
			420					425					430	
Ala	Gln													
														435

<210> 9591

<211> 708

<212> PRT

<213> Enterobacter cloacae

<400> 9591

Gly	Leu	Gly	Gln	Asn	Ala	Asp	Ala	Gln	Ala	Ala	Arg	Arg	Val	Cys	Arg
1				5					10					15	
Gly	Gly	Thr	Gly	Val	Cys	Ala	Val	Pro	Val	Pro	Pro	Ala	Leu	Arg	Ala
			20					25					30		
Gly	Gly	Asp	Gly	Leu	Ser	Ala	Ala	Gly	Asp	Pro	Arg	Gly	Phe	Cys	Gly
		35					40					45			
Asp	Ala	Leu	Ser	Gly	His	Asn	Ala	Asn	Met	Met	Ser	Leu	Gly	Gly	Ile
	50					55				60					
Ala	Ile	Ala	Ile	Gly	Ala	Met	Val	Asp	Ala	Ala	Ile	Val	Met	Ile	Glu
65				70					75					80	
Asn	Met	His	Lys	Val	Leu	Glu	Leu	Trp	Arg	His	Asp	Asn	Pro	Gly	Lys
				85					90					95	
Glu	Pro	Ala	Pro	Gly	Glu	Tyr	Trp	Arg	Leu	Ala	Glu	Lys	Ala	Ala	Val
			100					105					110		
Glu	Val	Gly	Pro	Ala	Leu	Phe	Cys	Ser	Leu	Leu	Ile	Ile	Thr	Leu	Ser
		115					120					125			
Phe	Ile	Pro	Val	Phe	Ser	Leu	Glu	Ala	Gln	Glu	Gly	Arg	Met	Phe	Ser

130	135	140
Pro Leu Ala Phe Thr Lys	Thr Trp Ser Met Ala	Val Ala Ala Gly Leu
145	150	155
Gly Ile Thr Leu Val Pro	Val Leu Met Gly Phe	Phe Ile Arg Gly Lys
165	170	175
Ile Pro Asp Glu Lys Ala	Asn Pro Ile Asn Arg	Leu Leu Ile Arg Leu
180	185	190
Tyr Glu Pro Leu Leu Asp	Lys Val Leu Thr Phe	Pro Lys Thr Thr Leu
195	200	205
Ala Leu Ala Cys Leu Leu	Leu Ile Ala Thr Leu	Trp Pro Leu Ser Arg
210	215	220
Leu Gly Ser Glu Phe Met	Pro Pro Leu Asp Glu	Gly Asp Leu Leu Tyr
225	230	235
Met Pro Ser Thr Leu Pro	Gly Ile Ser Ala Arg	Glu Ala Ser Arg Leu
245	250	255
Leu Gln Gln Thr Asp Arg	Leu Ile Lys Ser Val	Pro Glu Val Ala Ser
260	265	270
Val Phe Gly Lys Ala Gly	Arg Ala Glu Ser Ala	Thr Asp Pro Ala Pro
275	280	285
Leu Thr Met Leu Glu Thr	Thr Thr Ile His Phe	Lys Pro Arg Glu Gln Trp
290	295	300
Arg Pro Gly Met Thr Pro	Gln Lys Leu Val Glu	Leu Asp Lys Thr
305	310	315
Val Ser Leu Pro Gly Ile	Ala Asn Val Trp Val	Pro Pro Val Arg Asn
325	330	335
Arg Leu Asp Met Leu Ala	Thr Gly Ile Lys Ser	Pro Val Gly Ile Lys
340	345	350
Val Asn Gly Asn Asn Ile	Ala Asp Ile Glu Arg	Val Ala Arg Gln Ile
355	360	365
Glu Gln Val Val Lys Asp	Val Pro Gly Val Ser	Ser Ala Leu Ala Glu
370	375	380
Arg Leu Glu Gly Gly Arg	Tyr Val Asp Ile Arg	Ile Asp Arg Gln Lys
385	390	395
Ala Ala Arg Tyr Gly Val	Ser Val Asp Glu Leu	Gln Ser Leu Val Ser
405	410	415
Thr Leu Val Gly Gly Asp	Asn Ile Gly Glu Val	Ile Gln Gly Arg Glu
420	425	430
Arg Tyr Pro Ile Asn Leu	Arg Tyr Pro Arg Asp	Leu Arg Asp Asn Val
435	440	445
Asp Ala Leu Arg Val Leu	Pro Val Val Thr Ala	Ser Gly Ser Gln Val
450	455	460
Ala Leu Gly Glu Leu Ala	Asp Ile Val Val Thr	Glu Gly Pro Pro Met
465	470	475
Leu Lys Ser Glu Asn Ala	Arg Leu Ser Ser Trp	Ile Tyr Val Asp Leu
485	490	495
Arg Gly Arg Asp Leu Lys	Ser Ala Val Asp Glu	Met Gln Lys Arg Val
500	505	510
Glu Glu Lys Val Val Leu	Pro Gln Gly Val Ser	Leu Ser Trp Ser Gly
515	520	525
Gln Phe Glu Tyr Leu Glu	Arg Ala Thr Ala Arg	Leu Lys Ile Val Leu
530	535	540
Pro Val Thr Leu Met Ile	Ile Phe Val Leu Leu	Trp Leu Thr Phe Arg
545	550	555
Arg Ile Ser Asn Val Leu	Ile Ile Met Gly Ala	Leu Pro Phe Ala Leu
565	570	575
Ile Gly Gly Val Trp Leu	Leu Leu Trp Leu Glu	Tyr Asn Leu Ser Val
580	585	590
Ala Gly Ala Val Gly Phe	Ile Ala Leu Ser Gly	Val Ala Ala Glu Phe
595	600	605
Gly Val Ile Met Val Leu	Tyr Leu Asn His Ala	Ile Asp Lys Tyr His
610	615	620

Arg Leu Glu Pro Glu Gly Gly Asn Thr Val Leu Met Arg Ala Ile His
 625 630 635 640
 Glu Gly Ala Val Leu Arg Val Arg Pro Lys Val Met Thr Val Ala Thr
 645 650 655
 Ile Met Ala Gly Leu Leu Pro Ile Met Trp Gly Ser Gly Ser Gly Ser
 660 665 670
 Glu Val Met Gln Arg Ile Ala Ala Pro Met Ile Gly Gly Met Val Thr
 675 680 685
 Ala Pro Leu Leu Ser Met Leu Val Ile Pro Ala Leu Tyr Lys Leu Leu
 690 695 700
 His Gln Arg
 705

<210> 9592

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9592

Asn Ser Pro Cys Ala Arg Trp Arg Cys Asp Ala Ser Cys Ala Ser Arg
 1 5 10 15
 Ala Leu Pro Asn Leu Ser Cys Arg Thr Ala Trp Arg Ala Trp Met Arg
 20 25 30
 Phe Arg Ser Arg Arg Ser Ala Lys Leu Ile Arg Asn Ser Cys Ala Cys
 35 40 45
 Gly Leu Leu Asn Ala Pro Gly Ala Glu Glu Gln Arg Met Ala Ile Pro
 50 55 60
 Lys Leu Thr Ala Tyr Ala Leu Pro Thr Ala Ala Glu Leu Pro Thr Ser
 65 70 75 80
 Lys Val Asn Trp Ala Phe Glu Pro Glu Arg Ala Ala Leu Leu Ile His
 85 90 95
 Asp Met Gln Glu Tyr Phe Leu Asn Phe Trp Gly Glu Asn Ser Asp Met
 100 105 110
 Met Gln Gln Val Val Ala Asn Ile Ala Lys Leu Arg Ala Tyr Cys Lys
 115 120 125
 Glu His Asn Ile Pro Val Tyr Tyr Thr Ala Gln Pro Lys Asp Gln Ser
 130 135 140
 Asp Glu Asp Arg Ala Leu Leu Asn Asp Met Trp Gly Pro Gly Leu Thr
 145 150 155 160
 Arg Ser Pro Glu Gln Gln Arg Ile Val Ala Glu Leu Thr Pro Asp Glu
 165 170 175
 Ala Asp Thr Val Leu Val Lys Trp Arg Tyr Ser Ala Phe His Arg Ser
 180 185 190
 Pro Leu Glu Gln Met Leu Lys Glu Thr Gly Arg Asn Gln Leu Leu Ile
 195 200 205
 Thr Gly Val Tyr Ala His Ile Gly Cys Met Thr Thr Ala Thr Asp Ala
 210 215 220
 Phe Met Arg Asp Ile Lys Pro Phe Phe Ile Ala Asp Ala Leu Ala Asp
 225 230 235 240
 Phe Thr Arg Asp Glu His Leu Met Ser Leu Lys Tyr Val Ala Gly Arg
 245 250 255
 Ser Gly Arg Val Val Met Thr Asp Glu Leu Leu Pro Ser Val Pro Ala
 260 265 270
 Thr Lys Ala Ala Leu Arg Glu Leu Ile Leu Pro Leu Leu Asp Glu Ser
 275 280 285
 Asp Glu Pro Met Asp Asp Glu Asn Leu Ile Asp Tyr Gly Leu Asp Ser
 290 295 300
 Val Arg Met Met Ala Leu Ala Ala Arg Trp Arg Lys Val His Gly Asp
 305 310 315 320
 Ile Asp Phe Val Met Leu Ala Lys Asn Pro Thr Leu Asp Ala Trp Trp
 325 330 335

Ala Leu Leu Ser Arg Glu Val Lys
340 345

<210> 9593

<211> 713

<212> PRT

<213> Enterobacter cloacae

<400> 9593

His	Leu	Thr	Val	Ser	Gln	Gln	Arg	Thr	Thr	Thr	Met	Asn	Asn	Ser	Gly
1				5					10					15	
Lys	Tyr	Leu	Thr	Trp	Ala	Val	Leu	Ser	Val	Val	Gly	Ala	Phe	Ala	Leu
			20					25					30		
Gly	Tyr	Ile	Ala	Leu	Asn	Arg	Gly	Glu	Gln	Ile	Asn	Ala	Leu	Trp	Ile
		35					40				45				
Val	Val	Ala	Ser	Val	Cys	Ile	Tyr	Leu	Ile	Ala	Tyr	Arg	Phe	Tyr	Gly
	50				55					60					
Arg	Tyr	Ile	Ala	Lys	Thr	Val	Leu	Gly	Val	Asp	Gly	Thr	Arg	Met	Thr
65					70					75					80
Pro	Ala	Val	Arg	His	Asn	Asp	Gly	Leu	Asp	Tyr	Val	Pro	Thr	Asp	Lys
				85					90					95	
Lys	Val	Leu	Phe	Gly	His	His	Phe	Ala	Ala	Ile	Ala	Gly	Ala	Gly	Pro
			100					105					110		
Leu	Val	Gly	Pro	Val	Leu	Ala	Ala	Gln	Met	Gly	Tyr	Leu	Pro	Gly	Met
		115					120					125			
Ile	Trp	Ile	Leu	Ala	Gly	Val	Val	Leu	Ala	Gly	Ala	Val	Gln	Asp	Phe
	130				135						140				
Met	Val	Leu	Phe	Val	Ser	Thr	Arg	Arg	Asp	Gly	Arg	Ser	Leu	Gly	Glu
145					150					155					160
Leu	Val	Lys	Glu	Glu	Met	Gly	Ala	Thr	Ala	Gly	Val	Ile	Ala	Leu	Val
				165					170					175	
Ala	Thr	Phe	Met	Ile	Met	Val	Ile	Ile	Leu	Ala	Val	Leu	Ala	Met	Ile
			180					185					190		
Val	Val	Lys	Ala	Leu	Thr	His	Ser	Pro	Trp	Gly	Thr	Tyr	Thr	Val	Ala
		195					200					205			
Phe	Thr	Ile	Pro	Leu	Ala	Leu	Phe	Met	Gly	Ile	Tyr	Ile	Arg	Tyr	Leu
	210				215						220				
Arg	Pro	Gly	Arg	Ile	Gly	Glu	Val	Ser	Val	Ile	Gly	Leu	Val	Phe	Leu
225					230					235					240
Val	Phe	Ala	Ile	Ile	Ser	Gly	Gly	Trp	Val	Ala	Glu	Ser	Pro	Thr	Trp
				245					250					255	
Ala	Pro	Phe	Phe	Asp	Phe	Thr	Gly	Val	Gln	Leu	Thr	Trp	Met	Leu	Val
		260					265						270		
Gly	Tyr	Gly	Phe	Val	Ala	Ala	Val	Leu	Pro	Val	Trp	Leu	Leu	Leu	Ala
		275					280					285			
Pro	Arg	Asp	Tyr	Leu	Ser	Thr	Phe	Leu	Lys	Ile	Gly	Thr	Ile	Val	Gly
	290				295					300					
Leu	Ala	Ile	Gly	Ile	Leu	Ile	Met	Arg	Pro	Thr	Leu	Thr	Met	Pro	Ala
				310						315					320
Leu	Thr	Lys	Phe	Ile	Asp	Gly	Thr	Gly	Pro	Val	Trp	Thr	Gly	Asn	Leu
				325					330					335	
Phe	Pro	Phe	Leu	Phe	Ile	Thr	Ile	Ala	Cys	Gly	Ala	Val	Ser	Gly	Phe
			340					345					350		
His	Ala	Leu	Ile	Ala	Ser	Gly	Thr	Thr	Pro	Lys	Met	Leu	Ala	Asn	Glu
		355					360					365			
Asn	Gln	Ala	Cys	Leu	Ile	Gly	Tyr	Gly	Gly	Met	Leu	Met	Glu	Ser	Phe
	370				375					380					
Val	Ala	Ile	Met	Ala	Leu	Val	Ser	Ala	Cys	Ile	Ile	Asp	Pro	Gly	Val
					390					395					400
Tyr	Phe	Ala	Met	Asn	Ser	Pro	Met	Ala	Val	Leu	Ala	Pro	Ala	Gly	Thr
				405					410					415	

Val Asp Val Val Ala Ser Ala Ala Gln Val Val Ser Gly Trp Gly Phe
 420 425 430
 Ala Ile Thr Pro Glu Thr Leu Thr His Ile Ala Asn Glu Val Gly Glu
 435 440 445
 Gln Ser Ile Ile Ser Arg Ala Gly Gly Ala Pro Thr Leu Ala Val Gly
 450 455 460
 Met Ala Tyr Ile Leu His Gly Ala Leu Gly Gly Leu Met Asp Val Ser
 465 470 475 480
 Phe Trp Tyr His Phe Ala Ile Leu Phe Glu Ala Leu Phe Ile Leu Thr
 485 490 495
 Ala Val Asp Ala Gly Thr Arg Ala Ala Arg Phe Met Leu Gln Asp Leu
 500 505 510
 Leu Gly Val Ile Ser Pro Asn Leu Lys Arg Thr Asp Ser Leu Pro Ala
 515 520 525
 Asn Leu Leu Ala Thr Ala Leu Cys Val Leu Ala Trp Gly Tyr Phe Leu
 530 535 540
 His Gln Gly Val Val Asp Pro Leu Gly Gly Ile Asn Thr Leu Trp Pro
 545 550 555 560
 Leu Phe Gly Ile Ala Asn Gln Met Leu Ala Gly Met Ala Leu Met Leu
 565 570 575
 Cys Ala Val Val Leu Phe Lys Met Lys Arg Gln Arg Tyr Ala Trp Val
 580 585 590
 Ala Leu Val Pro Thr Ala Trp Leu Leu Ile Cys Thr Leu Thr Ala Gly
 595 600 605
 Trp Gln Lys Ala Phe Ser Pro Asp Asn Lys Val Gly Phe Leu Ala Ile
 610 615 620
 Ala Asn Lys Phe Gln Ala Met Ile Asp Ser Gly Lys Ile Pro Ala Gln
 625 630 635 640
 Tyr Thr Glu Ser Gln Leu Ser Gln Leu Val Phe Asn Asn Arg Leu Asp
 645 650 655
 Ala Gly Leu Thr Ile Phe Phe Met Val Val Val Val Val Leu Ala Leu
 660 665 670
 Tyr Ser Leu Lys Thr Ala Leu Ala Ala Leu Lys Val Asp Lys Pro Thr
 675 680 685
 Ala Lys Glu Thr Pro Tyr Glu Pro Met Pro Glu Asn Leu Asp Glu Ile
 690 695 700
 Val Thr Gln Ala Lys Gly Ala His
 705 710

<210> 9594

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 9594

His Tyr Gln Thr Pro Ser Pro Gln Pro Ser Pro Gln Arg Gly Glu Gly
 1 5 10 15
 Val Lys Val Pro Ser Pro Leu Trp Gly Glu Gly Gln Gly Glu Gly Asn
 20 25 30
 Thr Asn Glu Lys Leu Ile Met Phe Asp Thr Leu Ser Lys Ala Gly Lys
 35 40 45
 Tyr Leu Gly Gln Ala Ala Lys Met Met Ile Gly Val Pro Asp Tyr Asp
 50 55 60
 Asn Tyr Val Glu His Met Arg Val Asn His Pro Asp Gln Thr Pro Met
 65 70 75 80
 Thr Tyr Glu Glu Phe Arg Asp Arg Gln Asp Ala Arg Tyr Gly Gly
 85 90 95
 Lys Gly Gly Ala Lys Cys Cys
 100

<210> 9595

<211> 345
 <212> PRT
 <213> Enterobacter cloacae

<400> 9595

Arg	Asp	Thr	Thr	Leu	Leu	Phe	Asn	Arg	Arg	Asn	Gly	Val	Val	Ser	Lys
1				5					10					15	
Ala	Leu	Ser	Val	Ser	Ala	Ala	Ala	Ser	Gly	Arg	Gln	Gln	Ile	Phe	Asp
			20					25					30		
Phe	Leu	Tyr	Lys	Trp	Gly	Met	Leu	Leu	Thr	Val	Val	Ala	Leu	Val	Ala
		35				40					45				
Val	Phe	Gly	Leu	Ala	Ser	Asp	Ser	Phe	Leu	Asp	Pro	Asn	Asn	Ile	Ile
	50					55					60				
Asn	Ile	Leu	Arg	Ser	Ile	Ala	Ile	Val	Thr	Val	Ile	Ala	Ile	Gly	Val
65					70				75					80	
Ser	Ile	Ser	Leu	Thr	Val	Gly	Gly	Phe	Asp	Leu	Ser	Val	Gly	Ser	Thr
			85					90					95		
Ala	Ser	Leu	Ala	Asn	Ala	Leu	Val	Ile	Ser	Leu	Phe	Val	Trp	His	Gly
			100					105					110		
Phe	Gly	Thr	Thr	Glu	Ser	Ile	Val	Ile	Thr	Leu	Ala	Leu	Cys	Thr	Leu
		115					120					125			
Val	Gly	Leu	Phe	Asn	Ala	Phe	Leu	Ile	Val	Ile	Leu	Arg	Ile	Pro	Asp
	130					135					140				
Met	Leu	Ala	Thr	Leu	Ala	Ser	Leu	Phe	Val	Ile	Gln	Gly	Val	Ala	Met
145				150					155					160	
Thr	Tyr	Ser	Tyr	Gly	Gly	Ser	Ile	Thr	Glu	Asn	Met	Val	Leu	Pro	Ser
			165					170						175	
Gly	Asp	Met	Ala	Glu	Gly	Thr	Ile	Pro	Ala	Ala	Phe	Ser	Leu	Leu	Gly
		180					185					190			
Gln	Val	Pro	Thr	Ile	Val	Ile	Val	Met	Leu	Val	Val	Thr	Ile	Leu	Ala
		195					200					205			
Gln	Leu	Gly	Leu	Ser	Leu	Thr	Thr	His	Gly	Arg	Arg	Met	Tyr	Ala	Ile
	210					215					220				
Gly	Gly	Asn	Pro	Glu	Ala	Ala	Arg	Leu	Ser	Gly	Ile	Arg	Thr	Thr	Arg
225				230					235					240	
Tyr	Lys	Val	Ala	Ala	Tyr	Val	Ile	Ala	Ser	Leu	Leu	Ala	Gly	Leu	Gly
			245					250						255	
Gly	Ile	Leu	Leu	Ala	Ser	Arg	Ile	Gly	Ser	Ser	Gln	Val	Asn	Ala	Gly
		260					265					270			
Gly	Gly	Tyr	Leu	Met	Asp	Ala	Val	Ala	Ala	Ala	Trp	Ile	Gly	Phe	Ser
		275				280						285			
Leu	Ala	Gly	Ser	Gly	Lys	Pro	Asn	Ala	Leu	Gly	Thr	Leu	Val	Gly	Ala
	290					295				300					
Val	Ile	Leu	Gly	Val	Leu	Ser	Asn	Gly	Leu	Val	Met	Leu	Ser	Val	Pro
305				310					315					320	
Tyr	Tyr	Ala	Met	Asp	Ile	Ile	Lys	Gly	Leu	Val	Leu	Ala	Val	Ala	Leu
			325					330						335	
Ala	Ile	Thr	Tyr	Ile	Gln	Lys	Arg								
		340					345								

<210> 9596
 <211> 414
 <212> PRT
 <213> Enterobacter cloacae

<400> 9596

Thr	Ser	Lys	Arg	Leu	Asp	Cys	Gln	Arg	Leu	Thr	Ser	Cys	Tyr	Ser	Val
1				5					10					15	
Ser	Asn	Ile	Ser	Ile	Thr	Gly	Arg	His	Thr	Thr	Met	Ser	Asn	Asn	Pro
		20					25					30			
Leu	Ile	Pro	Gln	Ser	Lys	Leu	Pro	Asn	Leu	Gly	Thr	Thr	Ile	Phe	Thr

	35					40					45				
Gln	Met	Ser	Ala	Leu	Ala	Gln	Gln	His	Asn	Ala	Ile	Asn	Leu	Ser	Gln
	50					55					60				
Gly	Phe	Pro	Asp	Phe	Asp	Gly	Pro	Lys	Tyr	Leu	Gln	Glu	Arg	Leu	Ala
65					70					75					80
Tyr	His	Val	Ala	Gln	Gly	Ala	Asn	Gln	Tyr	Ala	Pro	Met	Thr	Gly	Val
				85					90					95	
Gln	Thr	Leu	Arg	Glu	Ala	Ile	Ala	Asp	Lys	Thr	Ala	Glu	Leu	Tyr	Gly
			100					105					110		
His	Lys	Pro	Asp	Ala	Asn	Ser	Asp	Ile	Thr	Val	Thr	Ala	Gly	Ala	Thr
		115					120					125			
Glu	Ala	Leu	Tyr	Ala	Ala	Ile	Thr	Ala	Leu	Val	Arg	Thr	Gly	Asp	Glu
	130					135					140				
Val	Ile	Cys	Phe	Asp	Pro	Ser	Tyr	Asp	Ser	Tyr	Ala	Pro	Ala	Ile	Glu
145				150						155					160
Leu	Ala	Gly	Gly	Val	Val	Lys	Arg	Val	Ala	Leu	Gln	Pro	Pro	His	Phe
				165					170					175	
Arg	Pro	Asp	Trp	Gln	Ala	Phe	Ala	Ala	Leu	Leu	Ser	Asp	Lys	Thr	Arg
		180					185						190		
Leu	Val	Ile	Leu	Asn	Thr	Pro	His	Asn	Pro	Ser	Ala	Thr	Val	Trp	Gln
	195					200						205			
Lys	Ala	Asp	Phe	Ala	Ala	Leu	Trp	Gln	Ala	Ile	Ala	Glu	Arg	Glu	Ile
	210					215					220				
Tyr	Val	Leu	Ser	Asp	Glu	Val	Tyr	Glu	His	Ile	Cys	Phe	Ala	Glu	Glu
225				230					235						240
Gly	His	Ala	Ser	Val	Leu	Ala	His	Pro	Gln	Leu	Arg	Glu	Arg	Ala	Ile
				245					250					255	
Ala	Val	Ser	Ser	Phe	Gly	Lys	Thr	Tyr	His	Met	Thr	Gly	Trp	Lys	Val
		260					265					270			
Gly	Tyr	Cys	Val	Ala	Pro	Ala	Ala	Ile	Ser	Ala	Glu	Leu	Arg	Lys	Val
	275					280					285				
His	Gln	Tyr	Leu	Thr	Phe	Ala	Val	Asn	Thr	Pro	Ala	Gln	Leu	Ala	Leu
	290					295					300				
Ala	Asp	Met	Leu	Arg	Ala	Glu	Pro	Gly	His	Tyr	Arg	Glu	Leu	Pro	His
305				310						315					320
Phe	Tyr	Arg	Glu	Arg	Arg	Asp	Leu	Phe	Val	Ala	Ala	Leu	Ser	Lys	Ser
				325					330					335	
Arg	Leu	Glu	Ile	Leu	Pro	Ser	Glu	Gly	Thr	Tyr	Phe	Leu	Leu	Ala	Asp
			340					345					350		
Tyr	Ser	Ala	Ile	Ser	Asp	Leu	Asp	Val	Ser	Phe	Cys	Gln	Leu	Leu	
	355					360					365				
Thr	Lys	Glu	Val	Gly	Val	Ala	Ala	Ile	Pro	Leu	Ser	Val	Phe	Cys	Ala
	370					375					380				
Asp	Pro	Phe	Pro	His	Lys	Leu	Ile	Arg	Leu	Cys	Phe	Ala	Lys	Gln	Glu
385				390						395					400
Ser	Thr	Leu	Leu	Ala	Ala	Glu	Arg	Leu	Ala	Thr	Leu				
				405				410							

<210> 9597

<211> 535

<212> PRT

<213> Enterobacter cloacae

<400> 9597

Gly	Gly	Leu	His	Asp	Asp	Val	Leu	Arg	Glu	Gly	Arg	Ile	Met	Leu	Asp
1			5						10				15		
Thr	Asn	Met	Lys	Thr	Gln	Leu	Lys	Ala	Tyr	Leu	Glu	Lys	Leu	Thr	Lys
			20					25				30			
Pro	Val	Glu	Leu	Ile	Ala	Thr	Leu	Asp	Asp	Ser	Ala	Lys	Ser	Ala	Glu
		35					40				45				
Ile	Lys	Ala	Leu	Leu	Thr	Glu	Ile	Ala	Glu	Leu	Ser	Pro	Lys	Val	Thr

50	55	60
Phe Lys Glu Asp Asn Thr	Leu Ala Val Arg Lys	Pro Ser Phe Leu Ile
65	70	75
Ala Asn Pro Gly Ser	Asp Gln Gly Pro Arg Phe	Ala Gly Ser Pro Leu
	85	90
Gly His Glu Phe Thr Ser	Leu Val Leu Ala Leu Leu	Trp Thr Gly Gly
	100	105
His Pro Ser Lys Glu Ala Gln	Ala Leu Leu Glu Gln Ile	Arg Asp Ile
	115	120
Asp Gly Asp Phe Glu Phe Glu	Thr Tyr Tyr Ser Leu Ser	Cys His Asn
	130	135
Cys Pro Asp Val Val Gln Ala	Leu Asn Leu Met Ser Val	Leu Asn Pro
	145	150
Arg Ile Lys His Thr Ala Ile	Asp Gly Gly Thr Phe Gln	Asn Glu Ile
	165	170
Thr Glu Arg Asn Val Met Gly	Val Pro Ala Val Tyr Leu	Asn Gly Gln
	180	185
Glu Phe Gly Gln Gly Arg Met	Thr Leu Thr Glu Ile Val	Ala Lys Val
	195	200
Asp Thr Gly Ala Glu Lys Arg	Ala Ala Glu Glu Leu Asn	Gln Arg Asp
	210	215
Ala Tyr Asp Val Leu Ile Val	Gly Ser Gly Pro Ala Gly	Ala Ala Ala
	225	230
Ala Val Tyr Ser Ala Arg Lys	Gly Ile Arg Thr Gly Leu	Met Gly Glu
	245	250
Arg Phe Gly Gly Gln Val Leu	Asp Thr Val Asp Ile Glu	Asn Tyr Ile
	260	265
Ser Val Pro Lys Thr Glu Gly	Gln Lys Leu Ala Gly Ala	Leu Lys Ala
	275	280
His Val Ser Asp Tyr Asp Val	Asp Val Ile Asp Ser Gln	Ser Ala Ser
	290	295
Lys Leu Val Pro Ala Ala Val	Glu Gly Gly Leu His Gln	Ile Glu Thr
	305	310
Ala Ser Gly Ala Val Leu Lys	Ala Arg Ser Val Ile Ile	Ala Thr Gly
	325	330
Ala Lys Trp Arg Asn Met Asn	Val Pro Gly Glu Asp Gln	Tyr Arg Thr
	340	345
Lys Gly Val Thr Tyr Cys Pro	His Cys Asp Gly Pro Leu	Phe Lys Gly
	355	360
Lys Arg Val Ala Val Ile Gly	Gly Gly Asn Ser Gly Val	Glu Ala Ala
	370	375
Ile Asp Leu Ala Gly Ile Val	Glu His Val Thr Leu Leu	Glu Phe Ala
	385	390
Pro Glu Met Lys Ala Asp Gln	Val Leu Gln Asp Lys Val	Arg Ser Leu
	405	410
Asn Asn Val Asp Ile Val Leu	Asn Ala Gln Thr Thr Glu	Val Lys Gly
	420	425
Asp Gly Ser Lys Val Thr Gly	Leu Glu Tyr Arg Asp Arg	Val Ser Gly
	435	440
Asp Ile His Ser Val Ala Leu	Ala Gly Ile Phe Val Gln	Ile Gly Leu
	450	455
Leu Pro Asn Thr Thr Trp Leu	Glu Gly Ala Ile Glu Arg	Asn Arg Met
	465	470
Gly Glu Ile Ile Ile Asp Ala	Lys Cys Glu Thr Ser Val	Lys Gly Val
	485	490
Phe Ala Ala Gly Asp Cys Thr	Thr Val Pro Tyr Lys Gln	Ile Ile Ile
	500	505
Ala Thr Gly Glu Gly Ala Lys	Ala Ser Leu Ser Ser Phe	Asp Tyr Leu
	515	520
Ile Arg Thr Lys Thr Ala		
530	535	

<210> 9599
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 9599
 Gly Thr Ala Arg Glu Phe Pro Val Asp Ser Ile Ala Cys Ala Gln Ser
 1 5 10 15
 Lys Gln Arg Arg Ala His Gly Cys Gln His Arg Gln Leu Arg Ala Ala
 20 25 30
 Val Gly His Leu Arg Arg Ile Asp Gln Arg Thr Gly Glu Leu Leu Ala
 35 40 45
 Gly Gly Gln Val Ala Glu Leu His Leu Ala Val His Gly Asp His Ile
 50 55 60
 Met Arg His Gly Leu Arg Arg Thr His Leu Arg Pro Val
 65 70 75

<210> 9600
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 9600
 Phe Val Asp Phe Ile Tyr Leu Thr Phe Asn Arg Ser Phe Ile Met Arg
 1 5 10 15
 Thr Val Phe Leu Ser Ala Leu Val Gly Ala Ser Val Ser Phe Ala Ser
 20 25 30
 Tyr Thr Ala Gln Ala Asn Gln Thr Trp Gln Gly Arg Gly Val Val Gln
 35 40 45
 Ser Ile Ser Asp Ser Ala Val Met Leu Arg His Glu Ala Ile Pro Glu
 50 55 60
 Leu Lys Trp Pro Ala Met Thr Met Pro Phe Thr Leu Ser Ala Gly Ala
 65 70 75 80
 Thr Leu Asn Gly Ala Lys Pro Gly Asp Glu Val Thr Phe Thr Leu Glu
 85 90 95
 Arg Ala Gly Asp Gly Phe Lys Ile Ile Ser Leu Thr Pro Ala Arg
 100 105 110

<210> 9601
 <211> 396
 <212> PRT
 <213> Enterobacter cloacae

<400> 9601
 Arg Asp Ala Gly Gly Asp Ala Met Ile Ala Ala Val Ile Arg Ala Ser
 1 5 10 15
 Leu Arg Asn Arg Leu Leu Val Ile Leu Ala Ala Leu Met Met Ala Gly
 20 25 30
 Trp Gly Trp Trp Ala Val Gln Arg Ala Pro Leu Asp Ala Leu Pro Asp
 35 40 45
 Leu Ser Asp Val Gln Val Ile Ile Lys Ala Ser Tyr Pro Gly Lys Ala
 50 55 60
 Pro Gln Val Ile Glu Asp Gln Val Thr Trp Pro Leu Thr Thr Ser Met
 65 70 75 80
 Leu Ser Val Pro Gly Ala Lys Thr Val Arg Gly Phe Ser Met Phe Gly
 85 90 95
 Asp Ala Tyr Val Tyr Val Leu Phe Glu Asp Gly Thr Asp Leu Tyr Trp
 100 105 110
 Ala Arg Ser Arg Val Leu Glu Tyr Leu Ser Gln Val Gln Ala Gln Phe
 115 120 125

Pro	Pro	Gly	Val	Lys	Val	Ser	Leu	Gly	Pro	Asp	Ala	Thr	Gly	Val	Gly
	130					135					140				
Trp	Ile	Tyr	Glu	Tyr	Ala	Leu	Ile	Asp	Arg	Ser	Gly	Lys	His	Ser	Leu
145					150					155					160
Ala	Asp	Leu	Arg	Ala	Leu	Gln	Asp	Trp	Thr	Leu	Lys	Phe	Glu	Leu	Lys
				165					170					175	
Thr	Val	Pro	Asn	Val	Ser	Glu	Val	Ala	Ser	Ile	Gly	Gly	Met	Val	Arg
			180					185					190		
Gln	Tyr	Gln	Ile	Val	Ala	Asp	Pro	Ala	Lys	Met	Arg	Ala	Leu	Asn	Ile
	195					200					205				
Thr	His	Ser	Gln	Leu	Ser	Gly	Ala	Val	Gln	Ala	Ala	Asn	Lys	Glu	Ser
	210					215					220				
Gly	Gly	Ala	Leu	Leu	Glu	Met	Gly	Glu	Ala	Glu	Tyr	Met	Val	Arg	Thr
225					230					235					240
Thr	Gly	Tyr	Leu	Arg	Ser	Leu	Glu	Asp	Phe	Arg	Asn	Val	Val	Ile	Ala
				245					250					255	
Thr	Arg	Asp	Gly	Val	Pro	Val	Leu	Leu	Lys	Asp	Val	Ala	Thr	Ile	Gly
			260					265					270		
Ile	Gly	Pro	Glu	Ile	Arg	Arg	Ser	Val	Ala	Glu	Leu	Asn	Gly	Glu	Gly
		275					280					285			
Glu	Val	Ala	Gly	Gly	Val	Ile	Val	Met	Arg	Tyr	Gly	Gln	Asn	Ala	Leu
	290					295					300				
Glu	Thr	Leu	His	Ala	Val	Lys	Ala	Lys	Leu	Ser	Glu	Leu	Gln	Lys	Thr
305					310					315					320
Leu	Pro	Gln	Gly	Val	Glu	Ile	Val	Pro	Val	Tyr	Asp	Arg	Ser	Thr	Leu
				325					330					335	
Ile	Glu	Asp	Ser	Val	Lys	Thr	Leu	Thr	His	Lys	Leu	Leu	Glu	Glu	Phe
			340					345					350		
Ala	Val	Val	Val	Leu	Val	Cys	Ala	Leu	Phe	Leu	Phe	His	Leu	Arg	Ser
		355					360					365			
Ala	Leu	Val	Ala	Met	Val	Ser	Leu	Pro	Leu	Gly	Ile	Leu	Gly	Ala	Phe
	370					375					380				
Val	Val	Met	His	Tyr	Gln	Gly	Ile	Thr	Arg	Ile					
385					390					395					

<210> 9602

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 9602

Asn	Ser	Ser	Arg	Ile	Thr	Ser	Pro	Thr	Pro	Val	Ser	Ser	Gly	Ser	Phe
1				5					10					15	
Cys	Asn	Ile	Arg	Val	Arg	Ile	Pro	Ser	Val	Thr	Thr	Ser	Ser	Arg	Val
		20						25					30		
Asp	Gly	Pro	Thr	Gln	Val	Ser	Ala	Arg	Ile	Arg	Tyr	Pro	Thr	Val	Ser
		35					40					45			
Pro	Gly	Phe	Ser	Phe	Ser	Ser	Ser	Ala	Arg	Arg	Cys	Ala	Thr	Leu	Arg
	50					55					60				
Ala	Ala	Ser	Leu	Arg	Gly	Ser	Ser	Arg	Ile	Ile	Phe	Pro	Leu	Met	Phe
65					70					75					80
Pro	Ser	Arg	Arg	Ile	Cys	Arg	Gly	Ser	Gln	Val	Asp	Leu	Pro	Ala	Pro
				85					90					95	
Val	Gly	Ala	Leu	Ser	Lys	Thr	Cys	Gly	Ala	Cys	Ser	Lys	Ala	Ala	Ser
			100					105					110		
Ser	Ser	Gly	Arg	Thr	Thr	Ala	Thr	Gly	Lys	Glu	Asp	Thr	Tyr	Gly	Ser
		115					120					125			
Arg	Gly	Leu	Thr	Leu	Ile	Gly	Val	His	Cys	Ser	Ile	Gly	Ala	Tyr	His
	130					135					140				
Tyr	Arg	Val	Leu	Arg	Met	Ser	Glu	Ser	Lys	Arg	Leu	Phe	Phe	Ala	Ile
145					150					155					160

Glu Leu Pro Thr Thr Leu Gln Arg Gln Ile Val Arg Trp Arg Ala Ser
 165 170 175
 His Phe Pro Ala Glu Ala Gly Arg Pro Val Val Ala Ala Asn Met His
 180 185 190
 Leu Thr Leu Ala Phe Leu Gly Glu Val Ser Ala Glu Lys Gln Arg Ala
 195 200 205
 Leu Ser Ala Met Ala Gly Arg Ile Ser Gln Pro Gly Phe Thr Leu His
 210 215 220
 Leu Asp Asp Ala Gly Gln Trp Leu Arg Ser Arg Val Val Trp Leu Gly
 225 230 235 240
 Thr Arg Gln Pro Pro Arg Gly Leu Leu Gln Leu Ala Asn Met Leu Arg
 245 250 255
 Ala Gln Ala Ala Arg Ser Gly Cys Tyr Gln Ser Pro Gln Pro Phe His
 260 265 270
 Pro His Ile Thr Leu Leu Arg Asp Ala Gly Gln Ala Val Ala Ile Pro
 275 280 285
 Pro Pro Gly Phe His Trp Ser Phe Gln Val Asn Glu Phe Ala Leu Tyr
 290 295 300
 Glu Ser Ala Phe Val Gln Gly Arg Thr Arg Tyr Thr Pro Leu Gln Arg
 305 310 315 320
 Trp Thr Leu Gly Asp Thr Leu Arg Asn Pro Asp Glu Val
 325 330

<210> 9603

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9603

Cys Val Leu Arg Arg Ser Asn Met Gln Glu Gly Gln Asn Arg Lys Thr
 1 5 10 15
 Ser Ser Leu Ser Ile Leu Ala Ile Ala Gly Val Glu Pro Tyr Gln Glu
 20 25 30
 Lys Pro Gly Glu Glu Tyr Met Asn Glu Ala Gln Leu Ser His Phe Lys
 35 40 45
 Arg Ile Leu Glu Ala Trp Arg Asn Gln Leu Arg Asp Glu Val Asp Arg
 50 55 60
 Thr Val Thr His Met Gln Asp Glu Ala Ala Asn Phe Pro Asp Pro Val
 65 70 75 80
 Asp Arg Ala Ala Gln Glu Glu Glu Phe Ser Leu Glu Leu Arg Asn Arg
 85 90 95
 Asp Arg Glu Arg Lys Leu Ile Lys Lys Ile Glu Lys Thr Leu Lys Lys
 100 105 110
 Val Glu Asp Glu Asp Phe Gly Tyr Cys Glu Ser Cys Gly Val Glu Ile
 115 120 125
 Gly Ile Arg Arg Leu Glu Ala Arg Pro Thr Ala Asp Leu Cys Ile Asp
 130 135 140
 Cys Lys Thr Leu Ala Glu Ile Arg Glu Lys Gln Met Ala Gly
 145 150 155

<210> 9604

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9604

Val Arg Arg Leu Ser Gly Arg Arg Thr Gln Phe Pro Leu Arg Ser Pro
 1 5 10 15
 Gly Val Leu Ile Ile Glu Thr Leu Pro Leu Leu Arg Gln His Ile Arg
 20 25 30
 Arg Ala Arg Gln Glu Gly Lys Arg Ile Ala Leu Val Pro Thr Met Gly

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<210> 9605
<211> 205
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Met	Ser	Phe	Asn 5	Lys	Leu	Gly	Leu	Ala 10	Thr	Val	Val	Ala	Met 15	Val
Leu	Ser	Ala	Gly 20	Ser	Ala	Met	Ala	Ala 25	Asp	Ile	Pro	Ser	Asp 30	Thr	Gly
Thr	Ile	Thr 35	Phe	His	Gly	Met	Val 40	Ser	Asn	Asn	Thr	Cys 45	Lys	Val	Ser
Leu	Asp 50	Gln	Lys	Ile	Asp	Gln 55	Asp	Gly	Asn	Asp	Phe 60	Asp	Val	Asn	Leu
Asp 65	Thr	Val	Phe	Val	Lys 70	Asp	Phe	Ala	Asn 75	Ala	Leu	Gly	Thr	Thr	Ser
Thr	Leu	Gly	Glu	Lys 85	Lys	Phe	Ser	Leu	Thr 90	Leu	Thr	Gly	Cys 95	Asp	Ser
Ala	Thr	Val	Lys 100	Gln	Ala	Ser	Ala	Gln 105	Phe	Asp	Ser	Trp	Ala 110	Gly	Ser
Ser	Ser	Thr 115	Ser	Gly	Gly	Leu	Leu 120	Val	Pro	Pro	Ser	Asn 125	Thr	Gln	Gly
Ala	Ala 130	Lys	Asn	Val	Asn	Leu 135	Val	Leu	Ser	Asn	Asp 140	Gly	Asn	Ser	Ala
Thr 145	Asp	Gln	Ile	Lys 150	Leu	Asp	Gln	Thr	Asn 155	Asn	Thr	Gln	Lys	Ala	Thr
Ile	Asp	Thr	Thr	Gly	Ala	Gly	Ala	Leu	Tyr	Tyr	Arg	Val	Ala	Tyr	Thr

				165					170					175			
Gln	Gly	Gln	Asn	Trp	Asp	Ala	Ala	Asn	Asn	Pro	Val	Ser	Ala	Gly	Val		
			180					185					190				
Val	Gln	Ala	Gln	Ala	Ala	Phe	Thr	Met	Ile	Tyr	Glu						
		195					200					205					

<210> 9606

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 9606

Ser	Thr	Val	Pro	Asn	Val	Met	Met	Leu	Lys	Gln	Gly	Ile	Thr	Pro	Met		
1				5					10					15			
Gly	Asn	Asn	Met	Lys	Lys	Asn	His	Cys	Gly	Tyr	Ser	Leu	Ile	Ala	Leu		
			20					25					30				
Ala	Met	Leu	Ala	Met	Ser	Gly	Ser	Ala	Ala	Ala	Ala	Asp	Leu	Asn	Val		
		35					40					45					
Asn	Phe	Thr	Ala	Asn	Ile	Arg	Glu	Thr	Thr	Cys	Asp	Met	Lys	Leu	Val		
	50					55					60						
Gly	Asp	Thr	Gly	Ser	Asp	Thr	Gln	Gln	Thr	Leu	Thr	Ile	Gly	Asn	Asn		
65					70					75					80		
Gly	Gln	Val	Arg	Leu	Asp	Asp	Val	Lys	Asp	Gly	Thr	Ala	Asn	Ala	Asn		
				85					90					95			
Phe	Lys	Ile	Val	Leu	Val	Glu	Cys	Pro	Ala	Ser	Leu	Thr	Ser	Leu	Lys		
			100					105					110				
Thr	Lys	Val	Ser	Gly	Thr	Arg	Ser	Gly	Tyr	Leu	Tyr	Ser	Gly	Leu	Ile		
		115					120					125					
Asn	Gln	Ile	Gln	Lys	Ile	Asp	Gly	Gly	Ala	Asp	Tyr	Ser	Ala	Val	Glu		
	130					135					140						
Ile	Ala	Arg	Ala	Ser	Ala	Pro	Asp	Ala	Pro	Phe	Ile	Ile	Asn	Ser	Glu		
					150					155					160		
Asp	Asp	Asn	Glu	Arg	Leu	Val	Trp	Ser	Pro	Thr	Glu	Ile	Gln	Asn	Lys		
				165					170					175			
Glu	Val	Ala	Leu	Val	Ala	Thr	Leu	Arg	Glu	Thr	Gln	Glu	Asn	Arg	Met		
		180						185					190				
Thr	Ile	Gly	Asp	Phe	Gln	Ala	Val	Ala	Thr	Phe	Glu	Phe	Ile	Tyr	Glu		
		195					200						205				

<210> 9607

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9607

Arg	His	Leu	Arg	Ile	Ile	Ile	Arg	Thr	Gly	Lys	Arg	Met	Arg	Met	Phe		
1				5					10					15			
Asn	Phe	Ile	Arg	Gln	Gly	Phe	Thr	Val	Lys	Gly	Thr	Met	Ala	Phe	Ala		
			20					25					30				
Met	Ala	Ser	Val	Leu	Leu	Thr	Leu	Ser	His	Ser	Cys	Trp	Ala	Ala	Asp		
		35					40					45					
Cys	Arg	Met	Asn	Asn	Gly	Lys	Gly	Gly	Thr	Thr	Thr	Leu	Ile	Asn	Ser		
	50					55					60						
Glu	Tyr	Ser	Gly	Gly	Thr	Val	Arg	Leu	Pro	Pro	Gly	Asn	Tyr	Ala			
65					70					75				80			
Ser	Thr	Leu	Phe	Asn	Val	Asn	Leu	Thr	Pro	Gly	Ile	Gln	Ala	Glu	Cys		
				85					90					95			
Gly	Pro	Gly	Asn	Asp	Gly	Phe	Asn	Leu	Val	Ser	Gln	Thr	Asn	Pro	Thr		
			100					105					110				

Leu Leu Lys Gly Ser Ser Tyr Gly Arg Ala Met Phe Glu Thr Asn Ile
 115 120 125
 Pro Gly Ile Tyr Tyr Ser Val Arg Val His Thr Ala Glu Ser Asp Gly
 130 135 140
 Gly Met Gly Gly Tyr Phe Ala Met Asn Thr Thr Asp Trp Thr Thr Val
 145 150 155 160
 Ala Ser Ser Gly Asn Ser Asp Pro Trp Asp Glu Lys Trp Ile Asn Thr
 165 170 175
 Ser Val Gln Ile Tyr Ile Asp Ala Gly Tyr Arg Gly Asn Pro Asn Lys
 180 185 190
 Glu Thr Ser Ile Arg Pro Lys Pro Gly Thr Leu Gly Lys Met Ala Ile
 195 200 205
 Gly Asn Pro Asn Asp Ser Asn Asn Gln Pro Trp Thr Phe Val Val Asn
 210 215 220
 Glu Asp Ser Phe Gln Ile Pro Ile Val Leu Pro Thr Cys Asp Met Ala
 225 230 235 240
 Met Leu Ser Asp Gly Thr Asn Asp Val Asn Leu Gly Glu Tyr Tyr Val
 245 250 255
 Ser Asp Ile Lys Asn Asn Arg Val Lys Asp Ile Pro Phe Ser Ile Ser
 260 265 270
 Leu Ser Asn Cys Thr Ser Val Ala Asn Ile Thr Thr Lys Leu Thr Thr
 275 280 285
 Ser Lys Leu Thr Gly Lys Asn Asn Asp Leu Leu Gly Asn Thr Leu Ser
 290 295 300
 Ser Gly Ala Glu Gly Ala Gly Val Lys Ile Met Tyr Asn Gly Thr Ser
 305 310 315 320
 Gln Leu Leu Pro Asn Asn Pro Asp Ser Ser Tyr Val Ile Thr Asp Tyr
 325 330 335
 Gln Thr Pro Glu Ser Lys Gln Ile Asn Tyr Val Ala Gln Leu Val Ala
 340 345 350
 Asn Gly Ser Thr Val Lys Pro Gly Ser Phe Lys Ala Thr Gly Val Phe
 355 360 365
 Thr Leu Ser Tyr Asp
 370

<210> 9608

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 9608

Pro Arg Thr His Gln Val Pro Pro Arg Gln Ala Ala Ala Gly Arg Asn
 1 5 10 15
 His Ala Leu Pro Cys Pro Ala Leu Ser Ala Gly Glu Leu Gly Leu Pro
 20 25 30
 Ala Val His Gly Ser Cys Thr Gly His His Ala His His Pro Arg His
 35 40 45
 Gly Asp Phe Arg Leu Pro Asp Pro Gly Leu Asp Cys Asp Pro Arg Arg
 50 55 60
 Gly Leu Tyr Gly Glu Thr Glu Lys Cys Gln Asn Gly Glu Ser Ala Leu
 65 70 75 80
 Asn Val Phe Ser Leu Tyr Ser Arg Leu Arg Val Gln Arg Leu Val Thr
 85 90 95
 Phe Leu Thr Asn Ser Arg Gln Gln Gln Asn Pro Pro Tyr His Arg Leu
 100 105 110
 Tyr Ile Ala Thr His Ile Phe Val Cys Gln Arg Ile Ile Leu Ser Ile
 115 120 125
 Pro Lys Pro Gly Glu Leu Ser Met Asn Asn Asn Lys Leu Ser Val Lys
 130 135 140
 Glu Lys Ile Gly Tyr Gly Met Gly Asp Ala Gly Cys Asn Ile Ile Phe
 145 150 155 160

Gly	Ala	Ile	Met	Leu	Phe	Val	Asn	Tyr	Phe	Tyr	Thr	Asp	Ile	Phe	Gly
				165					170					175	
Leu	Ala	Pro	Ala	Leu	Val	Gly	Val	Leu	Leu	Leu	Ser	Val	Arg	Val	Ile
			180					185					190		
Asp	Ala	Val	Thr	Asp	Pro	Ile	Met	Gly	Ala	Ile	Ala	Asp	Arg	Thr	Arg
		195					200					205			
Ser	Lys	Tyr	Gly	Arg	Phe	Arg	Pro	Trp	Leu	Leu	Trp	Ile	Ala	Phe	Pro
	210					215					220				
Tyr	Ala	Leu	Phe	Ser	Ile	Leu	Met	Phe	Thr	Thr	Pro	Glu	Trp	Ser	Tyr
225					230					235					240
Asn	Ser	Lys	Val	Ile	Tyr	Ala	Phe	Val	Thr	Tyr	Phe	Leu	Leu	Ser	Leu
				245					250					255	
Thr	Tyr	Thr	Ala	Ile	Asn	Ile	Pro	Tyr	Cys	Ser	Leu	Gly	Gly	Val	Ile
			260					265					270		
Thr	Asn	Asp	Pro	Lys	Glu	Arg	Val	Ala	Cys	Gln	Ser	Tyr	Arg	Phe	Val
		275					280					285			
Met	Val	Gly	Ile	Ala	Thr	Leu	Leu	Leu	Ser	Leu	Thr	Leu	Leu	Pro	Met
	290					295					300				
Ala	Asp	Trp	Phe	Gly	Gly	Asp	Asn	Lys	Ala	Lys	Gly	Tyr	Gln	Met	Ala
305				310						315					320
Met	Thr	Val	Leu	Ala	Leu	Ile	Gly	Thr	Cys	Met	Phe	Leu	Phe	Cys	Phe
				325					330					335	
Ala	Thr	Val	Arg	Glu	Arg	Val	Arg	Pro	Ala	Val	Gln	Thr	His	Asp	Glu
			340					345					350		
Leu	Lys	Asn	Asp	Leu	Lys	Asp	Val	Trp	Lys	Asn	Asp	Gln	Trp	Val	Arg
		355					360					365			
Ile	Leu	Leu	Leu	Thr	Leu	Cys	Asn	Val	Cys	Pro	Gly	Phe	Ile	Arg	Met
	370					375					380				
Ala	Ala	Thr	Met	Tyr	Tyr	Val	Thr	Trp	Val	Met	Gly	Gln	Ser	Thr	His
385					390					395					400
Phe	Ala	Thr	Leu	Phe	Ile	Ser	Leu	Gly	Val	Val	Gly	Met	Met	Phe	Gly
				405					410					415	
Ser	Met	Leu	Ala	Lys	Val	Leu	Thr	Asp	Arg	Trp	Cys	Lys	Leu	Lys	Val
			420					425					430		
Phe	Phe	Trp	Thr	Asn	Ile	Ala	Leu	Ala	Ile	Phe	Ser	Cys	Ala	Phe	Tyr
		435					440					445			
Phe	Phe	Asp	Pro	Lys	Ala	Thr	Thr	Thr	Ile	Val	Val	Leu	Tyr	Val	Leu
	450					455					460				
Leu	Asn	Ile	Leu	His	Gln	Ile	Pro	Ser	Pro	Leu	His	Trp	Ser	Leu	Met
465					470					475					480
Ala	Asp	Val	Asp	Asp	Tyr	Gly	Glu	Trp	Lys	Thr	Gly	Lys	Arg	Ile	Thr
			485						490					495	
Gly	Ile	Ser	Phe	Ser	Gly	Asn	Ile	Phe	Phe	Leu	Lys	Leu	Gly	Leu	Ala
			500					505					510		
Ile	Ala	Gly	Ala	Met	Val	Gly	Phe	Leu	Leu	Ser	Trp	Tyr	Gly	Tyr	Asp
		515					520					525			
Ala	Gly	Ala	Lys	Ala	Gln	Ser	Ala	Asp	Ala	Ile	Asn	Gly	Ile	Val	Leu
	530					535					540				
Leu	Phe	Thr	Val	Ile	Pro	Gly	Ile	Gly	Tyr	Leu	Ile	Thr	Ala	Gly	Val
545					550					555					560
Val	Arg	Leu	Leu	Lys	Val	Asp	Arg	Glu	Thr	Met	Lys	Gln	Ile	Gln	Ser
				565					570					575	
Asp	Leu	Glu	Lys	Arg	Arg	Thr	Asn	Tyr	Arg	Glu	Leu	Asn	Asp	Tyr	Gln
			580					585					590		
Glu	Leu	Lys	Ala	Ala	Glu	Thr	Lys								
		595					600								

<210> 9609

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9609

Gln His Ala Gly Thr Pro Tyr Leu Trp Cys Cys Tyr Ser Val Gln Ser
 1 5 10 15
 Ser Met Phe Gln Tyr Tyr Asp Ser Leu Pro Ile Trp Ser Phe Ile Met
 20 25 30
 Pro Pro Arg Arg Tyr Asn Pro Asp His Arg Arg Asp Ala Leu Leu Glu
 35 40 45
 Arg Ile Asn Ser Asp Ile Pro Ala Ser Val Ala His Ala Leu Arg Glu
 50 55 60
 Asp Leu Gly Gly Asp Val Ser Ala Asp Asn Asp Ile Thr Ala Gln Leu
 65 70 75 80
 Leu Pro Lys Glu Thr Arg Ser His Ala Val Val Ile Thr Arg Glu Ala
 85 90 95
 Gly Val Phe Cys Gly Lys Arg Trp Val Glu Glu Val Phe Thr Gln Leu
 100 105 110
 Ala Gly Asp Glu Val Gln Val Thr Trp His Val Glu Asp Gly Asp Ala
 115 120 125
 Val Thr Ala Asn Gln Pro Leu Phe Glu Leu Asp Gly Pro Ser Arg Val
 130 135 140
 Leu Leu Thr Gly Glu Arg Thr Ala Leu Asn Phe Val Gln Thr Leu Ser
 145 150 155 160
 Gly Val Ala Ser Glu Val Arg Arg Tyr Val Asp Leu Leu Ala Gly Thr
 165 170 175
 Arg Thr Gln Leu Leu Asp Thr Arg Lys Thr Leu Pro Gly Leu Arg Thr
 180 185 190
 Ala Leu Lys Tyr Ala Val Leu Cys Gly Gly Gly Ala Asn His Arg Leu
 195 200 205
 Gly Leu Ser Asp Ala Phe Leu Ile Lys Glu Asn His Ile Ile Ala Ser
 210 215 220
 Gly Ser Val Arg Gln Ala Val Glu Lys Ala Phe Trp Leu His Pro Asp
 225 230 235 240
 Val Pro Val Glu Val Glu Val Glu Thr Leu Glu Glu Leu Asp Glu Ala
 245 250 255
 Ile Lys Ala Gly Ala Asp Ile Ile Met Leu Asp Asn Phe Asp Thr Glu
 260 265 270
 Gln Met Arg Glu Ala Val Lys Arg Thr Asn Gly Gln Ala Gln Leu Glu
 275 280 285
 Val Ser Gly Asn Val Thr Phe Asp Thr Ile Arg Glu Phe Ala Glu Thr
 290 295 300
 Gly Val Asp Tyr Ile Ser Val Gly Ala Leu Thr Lys His Val Arg Ala
 305 310 315 320
 Leu Asp Leu Ser Met Arg Phe Lys
 325

<210> 9610

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 9610

Leu Arg Ser Lys Ser Cys Cys Ala Ser Trp Glu Cys Gln Met Ala Ala
 1 5 10 15
 Asn Ser Leu Trp Arg Trp Arg Ala Leu Thr Thr Glu Gly Glu Val Gln
 20 25 30
 Thr Gly Thr Leu Trp Ala Ile Asp Arg Asn Ala Ala Tyr Thr Ala Leu
 35 40 45
 Val Leu Lys Gln Leu His Pro Leu Ala Leu Lys Arg Cys Gln Gln His
 50 55 60
 His Arg Trp Gln Val Gln His Cys Tyr Asp Ile Phe Arg Gln Leu Ala
 65 70 75 80

Thr Leu Leu Gln Ala Gly Leu Met Leu Ser Gln Ser Leu His Met Leu
 85 90 95
 Ala Glu Gln His Pro Leu Gln His Trp Gln Ala Leu Leu His Ser Leu
 100 105 110
 Ala Asp Asp Leu Ser Glu Gly Phe Ala Leu Ser Glu Ala Met Lys Lys
 115 120 125
 Trp Pro Glu Val Phe Ser Pro Leu Tyr Val Ser Met Val Lys Thr Gly
 130 135 140
 Glu Leu Thr Gly Lys Leu Glu Ala Cys Cys Arg Gln Leu Ala Gln Gln
 145 150 155 160
 Gln Lys Ser Gln Gln Gln Leu Ser Ala Lys Val Lys Lys Ala Leu Arg
 165 170 175
 Tyr Pro Leu Ile Leu Thr Leu Ala Val Phe Val Val Leu Ala Met
 180 185 190
 Val Thr Leu Val Leu Pro Glu Phe Ala Ala Ile Tyr Lys Thr Phe Asn
 195 200 205
 Thr Pro Leu Pro Leu Leu Thr Gln Ala Val Met Gly Leu Ala Ala Leu
 210 215 220
 Val Gln Ala His Ile Leu Thr Leu Leu Ala Leu Leu Val Ala Met Val
 225 230 235 240
 Val Ile Ala Cys Lys Leu Arg Arg His Pro Arg Trp Gln Tyr Val Leu
 245 250 255
 Leu His Val Pro Val Met Gly Thr Leu Met Arg Gly Gln Lys Leu Gly
 260 265 270
 Gln Ile Phe Thr Val Leu Ser Leu Thr Gln Gln Ala Gly Ile Ala Phe
 275 280 285
 Leu Gln Gly Leu Glu Ser Val Glu Glu Thr Val Glu Cys Gly Tyr Trp
 290 295 300
 Gln Glu Lys Leu Arg Glu Ile Arg Ser Asp Ile Glu Gln Gly Met Pro
 305 310 315 320
 Val Trp Ser Ser Phe Gln Lys Ala Ser Val Phe Thr Pro Leu Cys Ile
 325 330 335
 Gln Leu Ile Arg Thr Gly Glu Val Ser Gly Ser Leu Asp Val Met Leu
 340 345 350
 Met Asn Leu Ala Arg His His Thr Glu Gln Thr Phe Gln Gln Ala Asp
 355 360 365
 Asn Leu Ala Ala Leu Leu Glu Pro Leu Leu Leu Val Val Thr Gly Leu
 370 375 380
 Ile Ile Gly Thr Leu Val Ala Met Tyr Leu Pro Ile Phe His Leu
 385 390 395 400
 Gly Asp Ala Met Ser Ala Gly
 405

<210> 9611

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 9611

Phe Pro Gly Ser Asp Leu Met Gly Tyr Ile Val Ala Leu Thr Gly Gly
 1 5 10 15
 Ile Gly Ser Gly Lys Ser Thr Val Ala His Ala Phe Ala Arg Leu Gly
 20 25 30
 Ile Thr Ile Ile Asp Ala Asp Ile Ile Ala Arg His Val Val Glu Pro
 35 40 45
 Asn Thr Pro Ala Leu Asn Ala Ile Glu Ala His Phe Gly Arg Arg Val
 50 55 60
 Ile Gln Ala Asp Gly Thr Leu Asn Arg Arg Gln Leu Arg Glu Tyr Ile
 65 70 75 80
 Phe Ser Asp Pro Ala Glu Lys Ala Trp Leu Asn Ala Leu Leu His Pro
 85 90 95

Ile Ile His Gln Glu Thr Gln Arg Gln Ile Ala Ala Ala Arg Ser Pro
 100 105 110
 Tyr Val Leu Trp Val Val Pro Leu Val Glu Asn Gln Leu Gln Asn
 115 120 125
 Lys Ala Asp Arg Thr Leu Val Ile Asp Val Ser Arg Glu Thr Gln Ile
 130 135 140
 Gln Arg Thr Met Ala Arg Asp His Val Ser Arg Glu His Ala Glu Gln
 145 150 155 160
 Ile Leu Ala Ala Gln Ala Thr Arg Glu Ala Arg Leu Ala Val Ala Asp
 165 170 175
 Asp Val Ile Asp Asn Asn Gly Ala Pro Asp Ala Ile Ala Ser Asp Val
 180 185 190
 Ala Arg Leu His Ala Gln Tyr Leu Thr Phe Ala Ala Gln Ala Val Ala
 195 200 205
 Gln Glu Lys Pro
 210

<210> 9612

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9612

His Gln Ala Pro Ser Gly Arg Ala Gly Ser Val Arg Arg Ser Ser Ala
 1 5 10 15
 Ala Thr Ala Thr Val Gln Ala Ser Arg Ala Ala Ser His His Pro Pro
 20 25 30
 Leu Ala Thr Pro Val Pro Ala Ala Thr Ser Arg Arg Ser Ala Asp Val
 35 40 45
 Tyr Asp Ile Val Gln Pro Pro Ala Ser Ser Ser Val Arg Ser Ala Leu
 50 55 60
 Phe Pro Glu Cys His Ser Ala Ser Pro Gly Val Thr Leu Pro Pro Thr
 65 70 75 80
 Ala Ser Pro Ala Val Ser Ser Arg Ala Ser Val Cys Gln Ser Gly Tyr
 85 90 95
 Asp Gly Thr Pro Ser Ala Cys Pro Gly Tyr His Pro Ile Pro Arg Cys
 100 105 110
 Gln Ile Ala Glu Ala Ala Ala Gly Arg His Ala Ser Gly Gly Gln Tyr
 115 120 125
 Pro Arg Gln Pro Pro Val Lys Tyr Ala Arg Pro Gly Ser Gly Cys Pro
 130 135 140
 Gly Val Arg Ala Ala Arg Ser Ala Ile His Asp Ala Ser Gly Arg His
 145 150 155 160
 Arg Cys Pro Ala Ser Arg Pro Ser His Leu Pro Ala Asp Ser Asp His
 165 170 175
 Pro Ala Arg Asp Gly Ala Arg Phe Cys Pro Gly Arg Pro Gly Pro Ala
 180 185 190
 Glu Gly
 195

<210> 9613

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 9613

Gly Ile Leu Met Lys Phe Ser Pro Ala Leu Gln Pro Ala Thr Leu Ile
 1 5 10 15
 Gln Arg Tyr Lys Arg Phe Leu Ala Asp Val Ile Thr Pro Ala Gly Glu
 20 25 30
 Thr Leu Thr Leu His Cys Pro Asn Thr Gly Ala Met Thr Gly Cys Ala

```
<210> 9614
<211> 163
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9615
<211> 277
<212> PRT
<213> Enterobacter cloacae
```

3

```

Asn Ala Gln Arg Phe Ala Phe Gly Pro Ser Gly Asn Ser Met Lys Pro
1      5      10
Thr Thr Ile Ser Leu Leu Gln Lys Cys Lys Gln Glu Lys Lys Arg Phe
20      25      30
Ala Thr Ile Thr Ala Tyr Asp Tyr Ser Phe Ala Lys Leu Phe Ala Glu
35      40      45
Glu Gly Ile Asn Val Met Leu Val Gly Asp Ser Leu Gly Met Thr Val
50      55      60
Gln Gly His Asp Ser Thr Leu Pro Val Thr Val Glu Asp Ile Ala Tyr
65      70      75
His Thr Arg Ala Val Arg Arg Gly Ala Pro Ala Cys Leu Leu Leu Ser
85      90      95
Asp Leu Pro Phe Met Ala Tyr Ala Thr Pro Glu Gln Ala Phe Glu Asn
100     105     110
Ala Ala Thr Val Met Arg Ala Gly Ala Asn Met Val Lys Ile Glu Gly
115     120     125
Gly Ala Trp Leu Val Asp Thr Val Lys Met Leu Thr Glu Arg Ala Val
130     135     140
Pro Val Cys Gly His Leu Gly Leu Thr Pro Gln Ser Val Asn Ile Phe
145     150     155
Gly Gly Tyr Lys Val Gln Gly Arg Gly Asp Ala Ala Gln Thr Leu Phe
165     170     175
Asp Asp Ala Val Ala Leu Glu Ala Ala Gly Ala Gln Leu Leu Val Leu
180     185     190
Glu Cys Val Pro Val Glu Leu Ala Lys Arg Ile Thr Glu Ala Leu Ser
195     200     205
Ile Pro Val Ile Gly Ile Gly Ala Gly Asn Val Thr Asp Gly Gln Ile
210     215     220
Leu Val Met His Asp Ala Phe Gly Ile Thr Gly Gly His Ile Pro Lys
225     230     235
Phe Ala Lys Asn Phe Leu Thr Glu Ala Gly Asp Met Arg Ala Ala Val
245     250     255
Arg Gln Tyr Ile Ala Glu Val Glu Ser Gly Val Tyr Pro Gly Glu Glu
260     265     270
His Ser Phe His
275

```

<210> 9616

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 9616

```

Lys Val Asn Val Met Ile Arg Lys Met Leu Gln Gly Lys Leu His Arg
1      5      10
Val Lys Val Thr Gln Ala Asp Leu His Tyr Glu Gly Ser Cys Ala Ile
20      25      30
Asp Gln Asp Phe Leu Asp Ala Ala Gly Ile Leu Glu Asn Glu Ala Ile
35      40      45
Asp Ile Trp Asn Val Asn Asn Gly Lys Arg Phe Ser Thr Tyr Ala Ile
50      55      60
Ala Ala Glu Arg Gly Ser Lys Ile Ile Ser Val Asn Gly Ala Ala Ala
65      70      75
His Cys Ala Asp Val Gly Asp Ile Val Ile Ile Ala Ser Phe Val Met
85      90      95
Met Ser Asp Glu Glu Ala Arg Arg Trp Gln Pro Lys Val Ala Tyr Phe
100     105     110
Glu Gly Asp Asn Glu Met Lys Arg Thr Ala Lys Ala Ile Pro Val Gln
115     120     125
Val Ala
130

```

<210> 9617
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 9617

```

Ser Thr Ser Asn Phe Lys Ser Ile Asp Lys Met Leu Ile Leu Ser Pro
1      5      10      15
Asp Val Arg Gln Gly Thr Ile Asp Ile Ile Pro Thr Gly Ser Gly Lys
20      25      30
Met Leu Asn Thr Ser Phe Tyr Lys Gly Phe Lys Ala Ala Cys Phe Thr
35      40      45
Val Ala Ala Val Ala Ser Phe Gln Ala Ser Ala Asp Ile Val Ile Ser
50      55      60
Gly Thr Arg Ile Val Tyr Gln Gln Ser Gln Lys Asp Val Ile Val Ser
65      70      75      80
Leu Asp Asn Arg Gly Lys Lys Pro Leu Leu Val Gln Ser Trp Leu Asp
85      90      95
Asp Gly Arg Asp Asp Thr Asn Pro Gln Glu Leu Lys Leu Pro Phe Ile
100     105     110
Ile Thr Pro Val Ser Arg Ile Asp Pro Gln Lys Gly Gln Ser Val
115     120     125
Arg Ile Ser Tyr Leu Gly Gly Ser Leu Pro Gln Asp Arg Glu Ser Leu
130     135     140
Phe Trp Phe Asn Val Leu Glu Ile Pro Pro Lys Ser Lys Val Lys Asp
145     150     155     160
Gly Glu Asn Pro Asn Gln Leu Gln Leu Ala Phe Arg Thr Arg Ile Lys
165     170     175
Leu Phe Phe Arg Pro Asp Gly Leu Lys Gly Thr Pro Gly Asn Ala Ala
180     185     190
Ala Arg Val Thr Trp Ser Gln Gln Lys Gln Gly Asn Thr Leu Asn Leu
195     200     205
Ile Ala His Asn Asp Ser Pro Tyr Asn Val Ser Ile Ser Asn Val Lys
210     215     220
Leu Lys Ser Ala Asn Lys Glu Tyr Gln Val Glu His Lys Ser Ile Leu
225     230     235     240
Pro Phe Ser Thr Gln Ile Met Gln Val Lys Gly Leu Gly Ser Thr Ala
245     250     255
Thr Gly Thr Val Ala Tyr Glu Thr Ile Asn Asp Asn Gly Gly Ser Asp
260     265     270
Thr Phe Glu Ser Lys Val Asn
275      280

```

<210> 9618
 <211> 866
 <212> PRT
 <213> Enterobacter cloacae

<400> 9618

```

Ser Met Leu Phe Gln Arg Ser Ile Leu Cys Leu Ala Ile Cys Ala Ala
1      5      10      15
Phe Pro Leu His Ala Ser Glu Thr Glu Lys Lys Ala Val Asp Thr Ser
20      25      30
Ser Glu Thr Glu Ser Ala Ile Glu Phe Asn Asp Gln Phe Leu Ile Asp
35      40      45
Asn Gly Gly Gly Ile Asn Val Asp Arg Tyr Ala Tyr Gly Asn Pro Val
50      55      60
Leu Pro Gly Thr Tyr Arg Val Lys Val Asn Leu Asn Gly Asn Ser Lys
65      70      75      80
Ser Thr Val Glu Met Ala Phe Ile Asp Asn Lys Thr Pro Arg Ala Ser

```

				85					90					95	
Ala	Cys	Leu	Thr	Lys	Leu	Thr	Leu	Thr	Gln	Ala	Gly	Val	Asp	Thr	Ser
			100					105					110		
Ile	Leu	Gly	Asp	Asp	Val	Lys	Asp	Glu	Thr	Ser	Cys	Val	Asp	Ile	
		115					120					125			
Lys	Lys	Tyr	Tyr	Pro	Gly	Ala	Ser	Glu	Asn	Phe	Asp	Ser	Ser	Lys	Gln
	130					135					140				
Glu	Met	Asp	Leu	Asn	Phe	Pro	Gln	Ile	Tyr	Val	Leu	Lys	Leu	Pro	Ala
145					150					155				160	
Gly	Tyr	Val	Asp	Pro	Ser	Leu	Trp	Asp	Asn	Gly	Val	Pro	Ala	Gly	Leu
			165					170						175	
Leu	Ser	Tyr	Asp	Leu	Asn	Thr	Trp	His	Ser	Glu	Ser	Asn	Gly	Thr	Asn
			180					185					190		
Ser	Asp	Thr	Ala	Tyr	Ala	Gly	Leu	His	Tyr	Gly	Leu	Asn	Val	Gly	Pro
		195					200					205			
Trp	Arg	Leu	Arg	Ser	Arg	Gly	Ser	Leu	Asn	Trp	Asp	Ser	Asp	Asn	Gly
	210					215					220				
Thr	His	Tyr	Ser	Ser	Gln	Asp	Ile	Tyr	Leu	Gln	Arg	Asp	Ile	Thr	Pro
225					230					235					240
Leu	Asn	Ala	Gln	Met	Val	Met	Gly	Asp	Ser	Tyr	Thr	Arg	Gly	Asp	Val
			245					250						255	
Phe	Asp	Ser	Val	Ser	Leu	Arg	Gly	Ala	Arg	Met	Tyr	Asn	Asp	Asp	Arg
			260					265					270		
Met	Leu	Pro	Gln	Gly	Thr	Ser	Gly	Tyr	Ala	Pro	Val	Ile	Arg	Gly	Val
		275					280					285			
Ala	Asn	Ser	Asn	Ala	Lys	Val	Ser	Val	Met	Gln	Ser	Gly	Asn	Lys	Ile
	290					295				300					
Tyr	Glu	Thr	Thr	Val	Pro	Pro	Gly	Ala	Phe	Glu	Ile	Asn	Asp	Leu	Ser
305					310					315				320	
Thr	Thr	Gly	Tyr	Gly	Asn	Asp	Leu	Ile	Val	Thr	Val	Glu	Glu	Ala	Asp
			325					330						335	
Gly	Ser	Lys	Arg	Thr	Phe	Thr	Val	Pro	Phe	Ser	Ser	Val	Thr	Gln	Met
			340					345					350		
Leu	Arg	Pro	Gly	Ser	Ser	Arg	Trp	Asp	Val	Gly	Ile	Gly	Glu	Leu	Asn
		355					360					365			
Asp	Asp	Ser	Leu	His	Asp	Lys	Pro	Asn	Val	Gly	Tyr	Ala	Thr	Tyr	Ala
	370					375				380					
Tyr	Gly	Leu	Asn	Asn	Thr	Phe	Thr	Gly	Tyr	Val	Gly	Ala	Gln	Tyr	Thr
385					390					395				400	
Asp	Met	Asp	Phe	Tyr	Ala	Gly	Leu	Leu	Gly	Leu	Ala	Met	Asn	Thr	Arg
			405					410						415	
Ile	Gly	Ala	Phe	Ala	Leu	Asp	Val	Thr	Gly	Ser	Tyr	Ala	Asp	Ile	Asp
		420						425					430		
Gly	Leu	Asp	Thr	Leu	Lys	Gly	Gln	Ser	Tyr	Arg	Leu	Thr	Tyr	Ser	Lys
		435					440					445			
Met	Leu	Glu	Ala	Thr	Asn	Thr	Ser	Leu	Asn	Val	Ala	Ala	Tyr	Arg	Phe
	450					455				460					
Ser	Thr	Glu	Asp	Tyr	Leu	Ser	Leu	Asn	Asp	Ala	Ala	Ser	Leu	Gln	Asp
465					470					475				480	
Ser	Ile	His	His	Glu	Glu	Tyr	Gly	Asn	Arg	Ser	Tyr	Asp	Ser	Asn	Ala
			485					490						495	
Glu	Leu	Tyr	Ala	Asp	Tyr	Gln	Arg	Thr	Lys	Asn	Gln	Ile	Gln	Val	Ser
			500					505					510		
Leu	Asn	Gln	Pro	Leu	Asn	Val	Asn	Gly	Asp	Glu	Tyr	Gly	Ser	Leu	Tyr
		515					520					525			
Ile	Ser	Gly	Thr	Trp	Gln	Asp	Tyr	Trp	Asn	Asp	Ser	Ser	Ser	Thr	Ser
	530					535				540					
Asp	Tyr	Ser	Val	Gly	Tyr	Asn	Asn	Ser	Phe	Ala	Tyr	Gly	Ser	Tyr	Ser
545					550					555				560	
Val	Ser	Val	Gln	Arg	Thr	Tyr	Asn	Glu	Thr	Gly	Glu	Lys	Asp	Asp	Ser
			565					570					575		

Val Tyr Leu Asn Val Ser Ile Pro Phe Ser Ile Phe Asn Lys Asp Asn
 580 585 590
 Ala Gln Ser Gly Gly Phe Asn Asn Val Asn Met Ser Leu Arg Thr Asp
 595 600 605
 Leu Lys Gly Gly Thr Ser Phe Asn Ser Thr Ala Ser Gly Asn Ser Lys
 610 615 620
 Asn Ser Glu Val Ser Tyr Ser Val Ser Ala Ser Ser Ser Gly Gly Asn
 625 630 635 640
 Tyr Gly Asn Leu Asn Gln Val Ser Gly Tyr Ser Ser Trp Asn Ser Pro
 645 650 655
 Tyr Gly Pro Leu Gly Val Ser Ala Ser Phe Gly Asp Asp Asn Ser Lys
 660 665 670
 Gln Tyr Ser Ala Ser Tyr Asn Gly Gly Met Val Val His Ser Gly Gly
 675 680 685
 Val Val Phe Thr Ser Gly Ser Ile Gly Glu Thr Asp Ser Leu Ala Leu
 690 695 700
 Val Lys Ala Ser Gly Ala Thr Gly Ala Arg Leu Gly Tyr Gly Gln Ser
 705 710 715 720
 Arg Ile Asn Ser Ser Gly Tyr Gly Ile Met Pro Tyr Met Ser Ala Tyr
 725 730 735
 Arg Glu Asn Arg Val Ser Leu Asp Ile Ser Thr Leu Glu Ala Asp Val
 740 745 750
 Glu Ile Lys Asn Thr Ser Ala Val Ala Val Pro Arg Asn Gly Ser Val
 755 760 765
 Val Phe Val Asn Phe Glu Thr Asp Glu Gly Arg Ser Leu Val Leu Glu
 770 775 780
 Leu Gln Arg Ser Asp Asn Gly Phe Ile Pro Leu Gly Ala Asp Val Leu
 785 790 795 800
 Asn Glu Lys Asn Glu Ser Ile Gly Thr Val Gly Gln Ala Gly Gln Ala
 805 810 815
 Tyr Val Arg Gly Val Glu Asn Lys Gly Ala Leu Arg Val Val Trp Gly
 820 825 830
 Ser Asp Gly Ser Ser Ser Cys Thr Val His Tyr Gln Ile Pro Glu Asn
 835 840 845
 Ala Lys Lys Ala Gly Leu Thr Thr Ile Leu Ser Asn Gln Gln Cys Gln
 850 855 860
 Met
 865

<210> 9619

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9619

Cys Ala Ser His Val Tyr Tyr His Leu Ser Ile Ile Pro Gly Thr Ser
 1 5 10 15
 Met Gln Gln Ser Pro Phe Thr Leu Tyr Gln Pro Gly Leu Val Leu Leu
 20 25 30
 Met Gly Leu Ala Gly Gly Ile Leu Pro Gly Val Gly Gln Ala Ser Ser
 35 40 45
 Gly Leu Asp Val Asn Ile Thr Ala Asn Ile Val Asn Ser Thr Cys Lys
 50 55 60
 Met Thr Val Glu Asn Asp Gly Glu Ile Tyr Leu Pro Asn Val Met Arg
 65 70 75 80
 Ser Trp Phe Tyr Asn Pro Asp Gly Ser Asp Arg Phe Thr Ala Thr Asp
 85 90 95
 Asp Ala Gly Gly Thr Pro Phe Lys Ile His Val Asp Asp Cys Tyr Gly
 100 105 110
 Asp Ser Ser Thr Ala Lys Lys Leu Ser Phe Ser Phe Ser Pro Gln Ser
 115 120 125

Gly	Phe	Trp	Pro	Gly	Gln	Asn	Gln	Val	Phe	Lys	Ser	Asp	Asp	Thr	Ala
130						135					140				
Ala	Gly	Ala	Ala	Lys	Asn	Val	Gly	Val	Val	Val	Phe	Ser	Glu	Arg	Tyr
145					150					155					160
Lys	Lys	Asn	Val	Leu	Asn	Asn	Asp	Gly	Thr	Ser	Lys	Ile	Thr	Tyr	Asp
				165					170					175	
Val	Ser	Gly	Gln	Asp	Thr	Ala	Phe	Leu	Thr	Asp	Tyr	Gln	Phe	Tyr	Ala
			180					185					190		
Arg	Tyr	Gln	Asn	Ile	Gly	Val	Val	Ala	Gly	Gly	Val	Val	Thr	Ser	Lys
		195					200					205			
Val	Leu	Val	Asp	Val	Thr	Tyr	Glu								
	210					215									

<210> 9620

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 9620

Trp	Met	Leu	Thr	Lys	Glu	Val	Leu	Pro	Met	Thr	Glu	Lys	Thr	Val	Trp
1				5					10					15	
Gln	Glu	Thr	Leu	His	Asp	Gln	Phe	Gly	Gln	Tyr	Phe	Ala	Val	Asp	Asn
			20					25					30		
Val	Leu	Tyr	His	Glu	Lys	Thr	Asp	His	Gln	Asp	Leu	Ile	Ile	Phe	Glu
		35					40					45			
Asn	Ala	Ala	Phe	Gly	Arg	Val	Met	Ala	Leu	Asp	Gly	Val	Val	Gln	Thr
	50					55					60				
Thr	Glu	Arg	Asp	Glu	Phe	Ile	Tyr	His	Glu	Met	Thr	His	Val	Pro	
65					70				75					80	
Leu	Leu	Ala	His	Gly	His	Ala	Lys	Asp	Val	Leu	Ile	Ile	Gly	Gly	Gly
				85					90					95	
Asp	Gly	Ala	Met	Leu	Arg	Glu	Val	Ser	Arg	His	Gln	Asn	Val	Glu	Thr
			100					105					110		
Ile	Ser	Met	Val	Glu	Ile	Asp	Ala	Gly	Val	Val	Ser	Phe	Cys	Arg	Gln
		115					120					125			
Tyr	Leu	Pro	Asn	His	Asn	Ala	Gly	Ser	Tyr	Asp	Asp	Pro	Arg	Phe	Asn
	130					135					140				
Leu	Val	Ile	Asp	Asp	Gly	Val	Asn	Phe	Val	Asn	Gln	Thr	Thr	Gln	Thr
145					150					155					160
Phe	Asp	Val	Ile	Ile	Ser	Asp	Cys	Thr	Asp	Pro	Ile	Gly	Pro	Gly	Ala
				165					170					175	
Ser	Leu	Phe	Thr	Ser	Ser	Phe	Tyr	Glu	Gly	Cys	Lys	Arg	Cys	Leu	Lys
			180					185					190		
Pro	Gly	Gly	Ile	Phe	Val	Ala	Gln	Asn	Gly	Val	Cys	Phe	Leu	Gln	Gln
		195					200					205			
Asp	Glu	Ala	Leu	Asp	Ser	His	Arg	Lys	Leu	Ser	Thr	Tyr	Phe	Ala	Asp
	210					215					220				
Val	Ser	Phe	Tyr	Gln	Ala	Ala	Ile	Pro	Thr	Tyr	Tyr	Gly	Gly	Ile	Met
225					230					235					240
Thr	Phe	Ala	Trp	Ala	Thr	Asp	Asn	Asp	Val	Leu	Arg	His	Leu	Ser	Thr
				245					250					255	
Glu	Ile	Ile	Gln	Ala	Arg	Phe	His	Gln	Ala	Gly	Leu	Gln	Cys	Arg	Tyr
			260					265					270		
Tyr	Asn	Pro	Ala	Ile	His	Thr	Ala	Ala	Phe	Ala	Leu	Pro	Gln	Tyr	Leu
	275						280					285			
Gln	Asp	Ala	Leu	Ser	Ser	Lys	Glu	Val	Asn						
	290					295									

<210> 9621

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 9621

Leu Lys Lys Leu Lys Leu His Gly Phe Asn Asn Leu Thr Lys Ser Leu
 1 5 10 15
 Ser Phe Cys Ile Tyr Asp Ile Cys Tyr Ala Lys Thr Ala Glu Glu Arg
 20 25 30
 Asp Gly Tyr Ile Ala Tyr Ile Asp Glu Leu Tyr Asn Ala Asn Arg Leu
 35 40 45
 Thr Glu Ile Leu Thr Glu Thr Cys Ser Ile Ile Gly Ala Asn Ile Leu
 50 55 60
 Asn Ile Ala Arg Gln Asp Tyr Glu Pro Gln Gly Ala Ser Val Thr Ile
 65 70 75 80
 Leu Val Ser Glu Glu Pro Val Asp Pro Gln Leu Ile Asp Lys Thr Glu
 85 90 95
 His Pro Gly Pro Leu Pro Glu Val Val Val Ala His Leu Asp Lys Ser
 100 105 110
 His Ile Cys Val His Thr Tyr Pro Glu Ser His Pro Glu Gly Gly Leu
 115 120 125
 Cys Thr Phe Arg Ala Asp Ile Glu Val Ser Thr Cys Gly Val Ile Ser
 130 135 140
 Pro Leu Asn Ala Leu Asn Tyr Leu Ile His Gln Leu Glu Ser Asp Ile
 145 150 155 160
 Val Thr Ile Asp Tyr Arg Val Arg Gly Phe Thr Arg Asp Ile Asn Gly
 165 170 175
 Met Lys His Phe Ile Asp His Glu Ile Asn Ser Ile Gln Asn Phe Met
 180 185 190
 Ser Glu Asp Met Lys Ser Leu Tyr Asp Met Met Asp Val Asn Val Tyr
 195 200 205
 Gln Glu Asn Ile Phe His Thr Lys Met Leu Leu Lys Glu Phe Asp Leu
 210 215 220
 Lys His Tyr Met Phe His Thr Lys Pro Glu Asp Leu Ser Glu Glu Glu
 225 230 235 240
 Arg Lys Val Ile Thr Asp Leu Leu Trp Lys Glu Met Arg Glu Ile Tyr
 245 250 255
 Tyr Gly Arg Asn Ile Pro Thr Val
 260 265

<210> 9622

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9622

Gln Pro His Thr Arg Phe Gln Met Glu Ala Gln Gln His Gly Asp Gln
 1 5 10 15
 Leu Lys Arg Gly Leu Lys Asn Arg His Ile Gln Leu Ile Ala Leu Gly
 20 25 30
 Gly Ala Ile Gly Thr Gly Leu Phe Leu Gly Ser Ala Ser Val Ile Gln
 35 40 45
 Ser Ala Gly Pro Gly Ile Ile Leu Gly Tyr Ala Ile Ala Gly Phe Ile
 50 55 60
 Ala Phe Leu Ile Met Arg Gln Leu Gly Glu Met Val Val Glu Glu Pro
 65 70 75 80
 Val Ala Gly Ser Phe Ser His Phe Ala Tyr Lys Tyr Trp Gly Ser Phe
 85 90 95
 Ala Gly Phe Ala Ser Gly Trp Asn Tyr Trp Val Leu Tyr Val Leu Val
 100 105 110
 Ala Met Ala Glu Leu Thr Ala Val Gly Lys Tyr Ile Gln Phe Trp Tyr
 115 120 125
 Pro Glu Ile Pro Thr Trp Ala Ser Ala Ala Ala Phe Phe Val Leu Ile

130		135		140
Asn Ala Ile Asn Leu Thr	Asn Val Lys Val Phe Gly Glu Met Glu Phe			
145	150	155		160
Trp Phe Ala Ile Ile	Lys Val Ile Ala Val Val Ala Met Ile Ile Phe			
	165	170		175
Gly Gly Trp Leu Leu Phe Ser Gly Asn Gly Gly Pro Gln Ala Thr Val				
	180	185		190
Arg Asn Leu Trp Glu Gln Gly Gly Phe Leu Pro His Gly Met Thr Gly				
	195	200		205
Leu Val Met Met Met Ala Ile Ile Met Phe Ser Phe Gly Gly Leu Glu				
	210	215		220
Leu Val Gly Ile Thr Ala Ala Glu Ala Asp Asn Pro Glu Gln Ser Ile				
225	230	235		240
Pro Lys Ala Thr Asn Gln Val Ile Tyr Arg Ile Leu Ile Phe Tyr Val				
	245	250		255
Gly Ser Leu Ala Val Leu Leu Ser Leu Leu Pro Trp Thr Arg Val Thr				
	260	265		270
Ala Asp Thr Ser Pro Phe Val Leu Ile Phe His Glu Leu Gly Asp Thr				
	275	280		285
Phe Val Ala Asn Ala Leu Asn Val Val Val Leu Thr Ala Ala Leu Ser				
	290	295		300
Val Tyr Asn Ser Cys Val Tyr Cys Asn Ser Arg Met Leu Phe Gly Leu				
305	310	315		320
Ala Gln Gln Gly Asn Ala Pro Lys Ala Leu Leu Thr Val Asp Lys Arg				
	325	330		335
Gly Val Pro Val Asn Thr Ile Ile Val Ser Ala Val Val Thr Ala Leu				
	340	345		350
Cys Val Leu Ile Asn Tyr Leu Ala Pro Glu Ser Ala Phe Gly Leu Leu				
	355	360		365
Met Ala Leu Val Val Ser Ala Leu Val Ile Asn Trp Ala Met Ile Ser				
	370	375		380
Leu Ala His Ile Lys Phe Arg Arg Ala Lys Gln Gln Gln Gly Val Thr				
385	390	395		400
Thr Arg Phe Pro Ala Leu Leu Tyr Pro Leu Gly Asn Trp Val Cys Leu				
	405	410		415
Leu Phe Met Ala Ala Val Leu Val Ile Met Leu Ile Thr Pro Gly Met				
	420	425		430
Ala Ile Ser Val Tyr Leu Ile Pro Val Trp Ile Ala Ile Leu Gly Val				
	435	440		445
Gly Tyr Met Val Lys Gln Lys Asn Ala Lys Thr Val Lys Ala His				
450	455	460		

<210> 9623

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 9623

Thr Ile Ile Arg Asn Ser Lys Pro Leu Arg Leu Asn Lys Glu Ser Arg	
1	5
Met Gln Thr Trp Pro Asn Pro Phe Ile Glu Gln Arg Ala Asp Pro Tyr	10
	20
Ile Leu Arg His Asp Gly Gln Tyr Tyr Phe Ile Ala Ser Val Pro Glu	25
	30
	35
Tyr Asp Arg Leu Ala Ile Arg Arg Ala Asp Ser Leu Glu Gly Leu Arg	40
	45
	50
Asp Ala Glu Glu Val Val Trp Arg Lys Pro Asp Thr Gly Pro Met	55
65	60
	65
Ser Gln Leu Ile Trp Ala Pro Glu Leu His His Ile Asp Gly Ser Trp	70
	75
	80
	85
Tyr Ile Tyr Phe Ala Ala Thr His Thr Gln Ala Leu Asp His Leu Gly	90
	95

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<210> 9624
<211> 71
<212> PRT
<213> Enterobacter cloacae
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<210> 9625
<211> 308
<212> PRT
<213> Enterobacter cloacae
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<400> 9625															
Gly	Gly	Ser	Leu	Ser	Arg	Leu	Val	Thr	Val	Asp	Met	Ser	Glu	Ser	His
1				5					10					15	
Tyr	Ile	Gly	Arg	Phe	Ala	Pro	Ser	Pro	Ser	Gly	Glu	Leu	His	Phe	Gly
			20					25					30		
Ser	Leu	Ile	Ala	Ala	Leu	Gly	Ser	Tyr	Leu	Gln	Ala	Arg	Ala	Arg	Gln
		35					40					45			
Gly	Gln	Trp	Leu	Val	Arg	Ile	Glu	Asp	Ile	Asp	Pro	Pro	Arg	Glu	Val
	50					55					60				

Pro Gly Ala Ala Glu Thr Ile Leu Arg Gln Leu Glu His Tyr Gly Leu
 65 70 75 80
 His Trp Asp Gly Asp Val Leu Trp Gln Ser Gln Arg His Asp Ala Tyr
 85 90 95
 Arg Glu Arg Leu Ala Trp Leu Ala Glu Gln Gly Leu Ser Tyr Asn Cys
 100 105 110
 Thr Cys Thr Arg Ala Arg Ile Gln Ser Val Gly Gly Val Tyr Asp Gly
 115 120 125
 His Cys Arg Thr Arg His Asn Gly Pro Glu Asn Ala Ala Val Arg Leu
 130 135 140
 Ile Gln Arg Ser Pro Val Thr Gln Phe Thr Asp Val Val Ser Gly Thr
 145 150 155 160
 Ile Gln Ala Asp Glu Arg Leu Ala Arg Glu Asp Phe Ile Ile His Arg
 165 170 175
 Arg Asp Gly Leu Phe Ala Tyr Asn Leu Ala Val Val Val Asp Asp His
 180 185 190
 Phe Gln Gly Val Thr Glu Ile Val Arg Gly Ala Asp Leu Val Glu Pro
 195 200 205
 Thr Val Arg Gln Ile Ser Leu Tyr Gln Gln Phe Gly Trp Thr Val Pro
 210 215 220
 Asp Tyr Ile His Leu Pro Leu Ala Val Asn Asp Gln Gly Asn Lys Leu
 225 230 235 240
 Ser Lys Gln Asn His Ala Pro Ala Leu Pro Asp Gly Asp Pro Arg Pro
 245 250 255
 Val Leu Ile Asp Ala Leu Arg Phe Leu Asn Gln Asn Val Thr Gln Glu
 260 265 270
 Trp Gln Asp Leu Ser Leu Asp Glu Leu Leu Lys Thr Ala Ile Ala Asp
 275 280 285
 Trp Ala Leu Ile Ala Val Pro Lys Ile Gln His Ser Gln Met Arg Cys
 290 295 300
 Ala Glu Leu
 305

<210> 9626

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 9626

Leu Ala Ala Phe Leu Ile Thr Lys His Thr Thr Arg Cys Thr Ile Phe
 1 5 10 15
 Thr Arg Val Ala Asn Phe Cys Arg Lys Val Leu Ser Arg Glu Glu Ser
 20 25 30
 Met Ala Asn Asp Ala Ile Ala Gln Pro His Met Ser Val Ile Pro Arg
 35 40 45
 Glu Gln His Asn Ile Ser Arg Lys Asp Ile Ser Glu Asn Ala Leu Lys
 50 55 60
 Val Leu Tyr Arg Leu Asn Lys Ala Gly Tyr Glu Ala Tyr Leu Val Gly
 65 70 75 80
 Gly Gly Val Arg Asp Leu Leu Leu Gly Lys Lys Pro Lys Asp Phe Asp
 85 90 95
 Val Thr Thr Ser Ala Thr Pro Glu Gln Val Arg Lys Leu Phe Arg Asn
 100 105 110
 Cys Arg Leu Val Gly Arg Arg Phe Arg Leu Ala His Val Met Phe Gly
 115 120 125
 Pro Glu Ile Ile Glu Val Ala Thr Phe Arg Gly His His Glu Ala Gly
 130 135 140
 Val Asn Asp Arg Thr Thr Ser Gln Arg Gly Gln Asn Gly Met Leu Leu
 145 150 155 160
 Arg Asp Asn Ile Phe Gly Ser Ile Glu Glu Asp Ala Gln Arg Arg Asp
 165 170 175

Phe	Thr	Ile	Asn	Ser	Leu	Tyr	Tyr	Ser	Val	Ala	Asp	Phe	Thr	Val	Arg
			180					185					190		
Asp	Tyr	Val	Gly	Gly	Met	Gln	Asp	Leu	Lys	Asp	Gly	Leu	Ile	Arg	Leu
		195					200					205			
Ile	Gly	Thr	Pro	Glu	Thr	Arg	Tyr	Arg	Glu	Asp	Pro	Val	Arg	Met	Leu
	210					215					220				
Arg	Ala	Val	Arg	Phe	Ala	Ala	Lys	Leu	Asn	Met	Arg	Ile	Ser	Pro	Glu
225					230					235					240
Thr	Ala	Glu	Pro	Ile	Pro	Arg	Leu	Ala	Thr	Leu	Ile	Asn	Asp	Val	Pro
			245						250					255	
Pro	Ala	Arg	Leu	Phe	Glu	Glu	Ser	Leu	Lys	Leu	Leu	Gln	Ala	Gly	Tyr
			260					265					270		
Gly	Phe	Glu	Thr	Tyr	Asn	Leu	Leu	Arg	Glu	Tyr	Asn	Leu	Phe	Gln	Pro
		275					280					285			
Leu	Phe	Pro	Thr	Ile	Thr	Arg	Tyr	Phe	Thr	Glu	Asn	Gly	Asp	Ser	Ala
	290					295					300				
Met	Glu	Arg	Met	Ile	Ala	Gln	Val	Leu	Lys	Asn	Thr	Asp	Thr	Arg	Ile
305					310					315					320
His	Asn	Asp	Met	Arg	Val	Asn	Pro	Ala	Phe	Leu	Phe	Ala	Ala	Met	Phe
			325						330					335	
Trp	Tyr	Pro	Leu	Leu	Glu	Thr	Ala	Gln	Arg	Ile	Thr	Gln	Glu	Ser	Gly
			340					345					350		
Leu	Ala	Tyr	Thr	Asp	Ala	Phe	Ala	Leu	Ala	Ala	Asn	Asp	Val	Leu	Asp
		355					360					365			
Glu	Gly	Cys	Arg	Thr	Leu	Ala	Ile	Pro	Lys	Arg	Ile	Thr	Thr	Leu	Val
	370					375					380				
Arg	Asp	Ile	Trp	Gln	Leu	Gln	Leu	Arg	Met	Ser	Arg	Arg	Gln	Gly	Lys
385					390					395					400
Arg	Ala	Trp	Lys	Leu	Met	Glu	His	Pro	Lys	Phe	Arg	Ala	Ala	Phe	Asp
			405						410					415	
Leu	Leu	Ser	Leu	Arg	Ala	Glu	Val	Glu	Arg	Asn	Gln	Glu	Leu	Gln	Arg
			420					425					430		
Leu	Ala	Gln	Trp	Trp	Gly	Glu	Phe	Gln	Val	Ser	Ala	Pro	Pro	Glu	Gln
		435					440					445			
Lys	Asp	Met	Leu	Thr	Asp	Leu	Asp	Asp	Glu	Pro	Ala	Pro	Arg	Arg	Arg
	450					455					460				
His	Arg	Arg	Pro	Arg	Lys	Arg	Ala	Pro	Arg	Arg	Glu	Gly	Thr	Ala	
465					470					475					480

<210> 9627

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9627

Ile	Tyr	Leu	Arg	Val	Ile	Ser	Ala	Gly	Lys	Arg	Ser	Asn	Ile	Met	Lys
1				5					10					15	
Phe	Asn	Ser	Thr	Phe	Ile	Ala	Leu	Ser	Val	Ser	Ala	Leu	Leu	Phe	Ser
			20					25					30		
Gly	Met	Ala	Ser	Ala	Ala	Ile	Thr	Gly	Thr	Pro	Ser	Val	Glu	Leu	Thr
		35					40					45			
Ile	Lys	Ser	Lys	Ile	Val	Ser	Gly	Thr	Cys	Thr	Ala	Lys	Val	Leu	Asn
	50					55					60				
Asp	Ala	Gly	Thr	Ala	Ser	Thr	Glu	Ile	Ala	Phe	Gly	Asp	Val	Tyr	Lys
65					70					75					80
Ser	Asp	Leu	Val	Asn	Lys	Thr	Arg	Val	Glu	Pro	Leu	Lys	Ile	Ser	Phe
				85					90					95	
Thr	Asn	Cys	Ser	Gly	Val	Thr	Arg	Ala	Thr	Val	Ser	Ala	Ala	Lys	Gly
			100					105					110		
Ala	Gly	Gly	Glu	Cys	Ser	Gly	Val	Asn	Lys	Thr	Gly	Asp	Ser	Tyr	Ser
		115					120					125			

Gly Gly Leu Ala Thr Gly Phe Glu Ile Trp Ser Gly Val Val Asp Thr
 130 135 140
 Gly Glu Leu Met Ser Cys Asn Thr Pro Pro Ala Lys Asp Val Thr
 145 150 155 160
 Ile Thr Asp Gly Thr Gly Glu Phe Pro Met Asn Ser Arg Ile Val Ile
 165 170 175
 Gly Gln Gly Gln Thr Ile Ala Glu Val Gly Ala Gly Ala Val Asn Ala
 180 185 190
 Pro Val Thr Phe Thr Ile Thr Tyr Pro
 195 200

<210> 9628

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9628

Ile Gln Leu Thr Leu Ser Ser Asp Thr Arg Cys Val Val Ser Leu Lys
 1 5 10 15
 Val Gly Leu Pro Tyr Ser Ser Ala Thr Gln Ser Leu Gly Tyr Arg Ser
 20 25 30
 Leu Thr Ser Met Asn Asp Ile Asp Thr Leu Ile Ser Asn Asn Ala Leu
 35 40 45
 Trp Ser Lys Met Leu Val Glu Glu Asp Pro Gly Phe Phe Gly Lys Leu
 50 55 60
 Ala Gln Ala Gln Asn Pro Arg Phe Leu Trp Ile Gly Cys Ser Asp Ser
 65 70 75 80
 Arg Val Pro Ala Glu Arg Leu Thr Gly Leu Glu Pro Gly Glu Leu Phe
 85 90 95
 Val His Arg Asn Val Ala Asn Leu Val Ile His Thr Asp Leu Asn Cys
 100 105 110
 Leu Ser Val Val Gln Tyr Ala Val Asp Val Leu Glu Val Glu His Ile
 115 120 125
 Ile Ile Cys Gly His Tyr Gly Cys Gly Gly Val Gln Ala Ala Val Glu
 130 135 140
 Asn Thr Glu Leu Gly Leu Ile Asp Asn Trp Leu Leu His Ile Arg Asp
 145 150 155 160
 Ile Trp Phe Lys His Ser Ser Leu Leu Gly Glu Met Pro Gln Glu Arg
 165 170 175
 Arg Leu Asp Thr Leu Cys Glu Leu Asn Val Met Glu Gln Val Tyr Asn
 180 185 190
 Leu Gly His Ser Thr Ile Met Gln Ser Ala Trp Lys Arg Gly Gln Lys
 195 200 205
 Val Ser Ile His Gly Trp Ala Tyr Gly Ile His Asp Gly Leu Leu Arg
 210 215 220
 Asn Leu Glu Val Thr Ala Thr Asn Arg Glu Thr Leu Glu Gln Arg Tyr
 225 230 235 240
 Arg Ser Gly Ile Ala Asn Leu Lys Leu Lys His Val Asn His Lys
 245 250 255

<210> 9629

<211> 808

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (535)

<400> 9629

Gln Ile Ile Asn Lys Thr Asp Glu Tyr Phe Ser Met Ala Glu Thr Lys

1				5					10				15		
Thr	Lys	Gln	Pro	Arg	Leu	Leu	Val	Thr	Leu	Thr	Ala	Ala	Phe	Ala	Ala
			20					25					30		
Phe	Cys	Ala	Leu	Tyr	Leu	Leu	Ile	Gly	Gly	Val	Trp	Leu	Val	Ala	Ile
		35					40					45			
Gly	Gly	Ser	Trp	Tyr	Tyr	Pro	Ile	Ala	Gly	Leu	Val	Met	Val	Gly	Val
	50					55					60				
Thr	Val	Leu	Leu	Leu	Arg	Arg	Lys	Gln	Ser	Ala	Leu	Trp	Leu	Tyr	Ala
65					70					75					80
Ala	Leu	Leu	Leu	Ala	Thr	Met	Ile	Trp	Gly	Val	Trp	Glu	Val	Gly	Phe
				85					90					95	
Asp	Phe	Trp	Ala	Leu	Thr	Pro	Arg	Ser	Asp	Ile	Leu	Val	Phe	Phe	Gly
			100					105					110		
Ile	Trp	Leu	Ile	Leu	Pro	Phe	Val	Trp	Arg	Arg	Leu	Ile	Val	Pro	Ser
	115						120					125			
Ser	Gly	Ala	Val	Ala	Gly	Leu	Val	Val	Ala	Leu	Leu	Ile	Ser	Gly	Gly
	130					135					140				
Ile	Leu	Thr	Trp	Ala	Gly	Phe	Asn	Asp	Pro	Gln	Glu	Ile	Asn	Gly	Thr
145					150					155					160
Leu	Asn	Ala	Glu	Ser	Thr	Pro	Ala	Ala	Ala	Ile	Ser	Gln	Val	Ala	Asp
			165					170						175	
Gly	Asp	Trp	Pro	Ala	Tyr	Gly	Arg	Asn	Gln	Glu	Gly	Gln	Arg	Tyr	Ser
			180				185					190			
Pro	Leu	Lys	Gln	Ile	Asn	Ala	Asp	Asn	Val	Lys	Asn	Leu	Lys	Glu	Ala
	195						200					205			
Trp	Val	Phe	Arg	Thr	Gly	Asp	Leu	Lys	Met	Pro	Asn	Asp	Pro	Gly	Glu
	210					215				220					
Leu	Thr	Asn	Glu	Val	Thr	Pro	Ile	Lys	Val	Gly	Asn	Met	Leu	Tyr	Leu
225					230					235					240
Cys	Thr	Ala	His	Gln	Arg	Leu	Phe	Ala	Leu	Asp	Ala	Ala	Thr	Gly	Lys
			245						250					255	
Glu	Lys	Trp	His	Phe	Asp	Pro	Gln	Leu	Asn	Ser	Asn	Pro	Ser	Phe	Gln
			260					265					270		
His	Ile	Thr	Cys	Arg	Gly	Val	Ser	Tyr	His	Glu	Ala	Arg	Ala	Asp	Asn
	275						280					285			
Ala	Ser	Pro	Glu	Val	Ile	Ala	Asp	Cys	Pro	Arg	Arg	Ile	Met	Leu	Pro
	290					295					300				
Val	Asn	Asp	Gly	Arg	Leu	Phe	Ala	Ile	Asn	Ala	Glu	Thr	Gly	Lys	Leu
305					310					315					320
Cys	Glu	Thr	Phe	Ala	Asn	Lys	Gly	Ile	Leu	Asn	Leu	Gln	Thr	Asn	Met
			325						330					335	
Pro	Asp	Thr	Thr	Pro	Gly	Leu	Tyr	Glu	Pro	Thr	Ser	Pro	Pro	Ile	Ile
			340					345					350		
Thr	Asp	Lys	Thr	Ile	Val	Ile	Ala	Gly	Ser	Val	Thr	Asp	Asn	Phe	Ser
	355						360					365			
Thr	Arg	Glu	Thr	Ser	Gly	Val	Ile	Arg	Gly	Phe	Asp	Val	Asn	Thr	Gly
	370					375					380				
Lys	Leu	Leu	Trp	Ala	Phe	Asp	Pro	Gly	Ala	Lys	Asp	Pro	Asn	Ala	Ile
385					390					395					400
Pro	Ser	Asp	Glu	His	Thr	Phe	Thr	Phe	Asn	Ser	Pro	Asn	Ser	Trp	Ala
				405					410					415	
Pro	Ala	Ala	Tyr	Asp	Ala	Lys	Leu	Asp	Leu	Val	Tyr	Leu	Pro	Met	Gly
			420					425					430		
Val	Thr	Thr	Pro	Asp	Ile	Trp	Gly	Gly	Asn	Arg	Thr	Pro	Glu	Gln	Glu
	435						440					445			
Arg	Tyr	Ala	Ser	Ser	Ile	Val	Ala	Leu	Asn	Ala	Thr	Thr	Gly	Lys	Leu
	450					455					460				
Ala	Trp	Ser	Tyr	Gln	Thr	Val	His	His	Asp	Leu	Trp	Asp	Met	Asp	Met
465					470					475					480
Pro	Ser	Gln	Pro	Thr	Leu	Ala	Asp	Ile	Thr	Val	Asn	Gly	Lys	Thr	Val
				485					490					495	

Pro Val Ile Tyr Ala Pro Ala Lys Thr Gly Asn Ile Phe Val Leu Asp
 500 505 510
 Arg Ser Asn Gly Lys Leu Val Val Pro Ala Pro Glu Lys Pro Val Pro
 515 520 525
 Gln Gly Ala Ala Lys Gly Xaa Tyr Val Thr Lys Thr Gln Pro Phe Ser
 530 535 540
 Asp Leu Ser Phe Arg Pro Lys Lys Asp Leu Ser Gly Ala Asp Met Trp
 545 550 555 560
 Gly Ala Thr Met Phe Asp Gln Leu Val Cys Arg Val Met Phe His Gln
 565 570 575
 Leu Arg Tyr Glu Gly Ile Phe Thr Pro Pro Ser Glu Gln Gly Thr Leu
 580 585 590
 Val Phe Pro Gly Asn Leu Gly Met Phe Glu Trp Gly Gly Ile Ser Val
 595 600 605
 Asp Pro Asn Arg Gln Val Ala Ile Ala Asn Pro Met Ala Leu Pro Phe
 610 615 620
 Val Ser Arg Leu Ile Pro Arg Gly Pro Gly Asn Pro Met Glu Gln Pro
 625 630 635 640
 Lys Asp Ala Lys Gly Ser Gly Thr Glu Ala Gly Ile Gln Pro Gln Tyr
 645 650 655
 Gly Val Pro Tyr Gly Val Thr Leu Asn Pro Phe Leu Ser Pro Phe Gly
 660 665 670
 Leu Pro Cys Lys Gln Pro Ala Trp Gly Tyr Ile Ser Gly Leu Asp Leu
 675 680 685
 Lys Thr Asn Lys Ile Val Trp Lys Lys Arg Ile Gly Thr Pro Gln Asp
 690 695 700
 Ser Met Pro Phe Pro Met Pro Val Pro Val Pro Phe Asn Met Gly Met
 705 710 715 720
 Pro Met Leu Gly Gly Pro Ile Ser Thr Ala Gly Asn Val Leu Phe Ile
 725 730 735
 Ala Ala Thr Ala Asp Asn Tyr Leu Arg Ala Tyr Asn Met Thr Asn Gly
 740 745 750
 Glu Lys Leu Trp Gln Gly Arg Leu Pro Ala Gly Gly Gln Ala Thr Pro
 755 760 765
 Met Thr Tyr Glu Val Asn Gly Lys Gln Tyr Val Val Ile Ser Ala Gly
 770 775 780
 Gly His Gly Ser Phe Gly Thr Lys Met Gly Asp Tyr Ile Val Ala Tyr
 785 790 795 800
 Ala Leu Pro Asp Asp Ala Lys
 805

<210> 9630

<211> 212

<212> PRT

<213> Enterobacter cloacae

2

<400> 9630

Met Arg Leu Arg Ala Ser Gly Ala Ser Asn Ser Gly Met Gly Lys Ala
 1 5 10 15
 Gly Leu Ser Ala Ala Lys Thr Ala Arg Leu Gln Arg Gly Ile Ala Leu
 20 25 30
 Ala Thr Pro Ser Ala Ala Glu Asn Phe Lys Lys Ser Arg Arg Cys Met
 35 40 45
 Cys Ile Ser Leu Phe Pro Ala Gly Asp Leu Leu Ser Ile Asn Pro Pro
 50 55 60
 Leu Thr Gly Arg Ser Ser Thr Ala Ala Ile Ile Lys Ile Val Gly Leu
 65 70 75 80
 Ala Ser Ser Met Leu Thr Leu Ile Phe Arg Asp Ala Val Val Lys Ala
 85 90 95
 Met Lys Thr Phe Phe Arg Thr Ile Leu Phe Ala Ser Leu Met Ala Met
 100 105 110

Asn Ile Asn Val Asn Asn Phe Asn Lys Ile Thr Gly Glu His Arg Thr
 325 330 335
 Asp Asn His Gln Val Trp Gln His Asn Pro Ala Tyr Arg Asn Gly Val
 340 345 350
 Pro Tyr Ala Asn Ser Gln Leu Ala Ser Arg Tyr His Gln Thr Ser Val
 355 360 365
 Pro Gly Gly Leu Ser Ala Thr Arg Gln Gln Pro Val Asn Arg Asp Ser
 370 375 380
 Gln Arg Gln Ala Ala Met Ala Gln Val Gln Gln Ser Thr Gly Lys Thr
 385 390 395 400
 Leu Thr Gln Leu Gln His Gly Asp Ala His Phe Pro Gln His Ser Ala
 405 410 415
 Ser Ala Gln Gln Leu Lys Gln Leu Ser Gln Arg Ser Asn Tyr Arg Gly
 420 425 430
 Tyr Asp Ser Ala Arg Pro His Ala Gln Gln Met Asn Asn Thr Leu Ala
 435 440 445
 Gln Thr Arg Arg Pro Thr Gln Val Gln His Gln Pro Leu Arg Ala Asn
 450 455 460
 Ala Leu Ser Gly Asn Asp Ser Arg Ser Ala Ser Trp Gln Ala Gln His
 465 470 475 480
 Gln Arg Gly Leu Gln Ser Arg Gln His Ala Ser Leu Asn Ser Glu Gln
 485 490 495
 Arg Ala Ser Phe Arg Gln Gln Leu Ser Glu His His Thr Glu His His
 500 505 510
 Glu Phe His Arg Arg
 515

<210> 9632

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9632

Gly Ala Asp Met Asn Arg Gln Gln Gly Phe Thr Leu Ile Glu Leu Met
 1 5 10 15
 Val Val Ile Gly Ile Ile Ala Ile Leu Ser Ala Ile Gly Val Pro Ala
 20 25 30
 Tyr Gln Asn Tyr Leu Arg Lys Ala Ala Leu Thr Asp Met Leu Gln Thr
 35 40 45
 Phe Ile Pro Tyr Arg Thr Ala Ile Glu Leu Cys Ala Leu Asp Arg Gly
 50 55 60
 Gly Val Asp Arg Cys Asp Ala Gly Thr Asn Gly Ile Pro Ser Pro Thr
 65 70 75 80
 Thr Thr Arg Tyr Val Ser Ala Met Ser Val Ala Lys Gly Ile Val Ser
 85 90 95
 Leu Thr Gly Gln Glu Ser Leu Asn Gly Leu Glu Val Leu Met Thr Pro
 100 105 110
 Ile Trp Ser Asp Gly Asn Gly Met Thr Gly Trp Thr Arg Asp Cys Lys
 115 120 125
 Ile Ala Ser Asp Thr Ala Leu Arg Gln Ala Cys Glu Asp Val Phe Arg
 130 135 140
 Phe Asp Asn Asn
 145

<210> 9633

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9633

Gln Glu Trp Thr Met Asn Thr Glu Gln Leu Met Thr Leu Cys Gln Arg

1				5				10				15			
His	His	Ala	Leu	Leu	Ala	Ser	Asp	Thr	Glu	Met	Ile	Ser	Ile	Ala	
		20					25					30			
Val	Val	Gly	Asn	Pro	Ala	Ser	Glu	Leu	Met	Glu	Ala	Leu	Arg	Phe	Ala
		35					40					45			
Thr	Gln	Lys	Arg	Ile	Asp	Ile	Glu	Cys	Trp	Thr	Ala	Glu	Arg	Met	Glu
	50					55					60				
Lys	Arg	Leu	Gln	Ser	Leu	Ser	Ser	Ser	His	Leu	Pro	Gly	Ile	Val	Pro
65					70					75					80
Asn	Ser	Ala	Ala	Asp	Val	Leu	Ser	Thr	Thr	Leu	Gln	Gln	Ala	Val	Asn
				85					90					95	
Gln	Arg	Ala	Ser	Asp	Ile	His	Ile	Glu	Pro	Thr	Glu	His	Gly	Tyr	Gln
			100					105					110		
Ile	Arg	Leu	Arg	Ile	Asp	Gly	Val	Leu	Tyr	Pro	Gln	Pro	Pro	Ile	Ser
		115				120						125			
Ala	Ala	Leu	Gly	Thr	Thr	Leu	Ala	Ala	Arg	Leu	Lys	Val	Leu	Gly	Gln
		130				135					140				
Leu	Asp	Ile	Ala	Glu	Arg	Arg	Leu	Pro	Gln	Asp	Gly	Gln	Phe	Thr	Val
145					150					155					160
Glu	Leu	Ala	Ser	Val	Pro	Val	Ser	Phe	Arg	Ile	Ala	Thr	Leu	Pro	Cys
			165					170						175	
Ser	Gly	Gly	Glu	Lys	Ile	Val	Leu	Arg	Leu	Leu	His	Gln	Val	Gln	Gln
			180					185					190		
Ala	Leu	Glu	Leu	Glu	Gln	Leu	Gly	Met	Ser	Ala	Asp	Gln	Gln	Ala	Arg
		195					200					205			
Phe	Ala	Glu	Ala	Leu	Asn	Ser	Pro	Gln	Gly	Leu	Ile	Leu	Val	Thr	Gly
		210				215					220				
Pro	Thr	Gly	Ser	Gly	Lys	Thr	Val	Thr	Leu	Tyr	Ser	Ala	Leu	Gln	Ala
225					230					235					240
Arg	Asn	Thr	Pro	Asp	Val	Asn	Ile	Cys	Ser	Val	Glu	Asp	Pro	Val	Glu
				245					250					255	
Ile	Pro	Leu	Ala	Gly	Leu	Asn	Gln	Thr	Gln	Ile	Asn	Pro	Arg	Ala	Gly
			260					265					270		
Leu	Thr	Phe	Gln	Ser	Val	Leu	Arg	Ala	Leu	Leu	Arg	Gln	Asp	Pro	Asp
		275					280					285			
Ile	Ile	Met	Val	Gly	Glu	Ile	Arg	Asp	Gly	Glu	Thr	Ala	Glu	Ile	Ala
	290					295					300				
Ile	Lys	Ala	Ala	Gln	Thr	Gly	His	Leu	Val	Leu	Ser	Thr	Leu	His	Thr
305					310					315					320
Asn	Ser	Thr	Thr	Glu	Thr	Leu	Val	Arg	Leu	Gln	Gln	Met	Gly	Val	Ala
				325					330					335	
Arg	Trp	Met	Ile	Ser	Ser	Ala	Leu	Ser	Met	Val	Ile	Ala	Gln	Arg	Leu
			340					345					350		
Val	Arg	Arg	Leu	Cys	Pro	Tyr	Cys	Arg	Gln	Glu	Ala	Ser	Arg	His	Thr
		355					360					365			
Glu	Leu	Pro	Arg	Thr	Leu	Trp	Pro	Arg	Pro	Leu	Pro	Arg	Trp	Gln	Pro
		370				375					380				
Thr	Gly	Cys	Asp	Arg	Cys	Tyr	His	Gly	Phe	Tyr	Gly	Arg	Val	Ala	Ile
385					390					395					400
Phe	Glu	Val	Leu	Val	Ile	Asp	Asp	Thr	Leu	Arg	Gln	Ala	Ile	Ala	Ser
				405					410					415	
Gly	Ala	Ser	Thr	Glu	Val	Ile	Gly	Ser	Ser	Ala	Arg	Gln	Ala	Gly	Met
			420					425					430		
Thr	Ser	Leu	Phe	Glu	His	Gly	Cys	Met	Ala	Val	Glu	Gln	Gly	Leu	Thr
		435					440					445			
Thr	Leu	Glu	Glu	Leu	Leu	Arg	Val	Leu	Gly	Met	Pro	Asp	Gly	Cys	
	450					455					460				

<210> 9634

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9634

Arg Arg Thr Arg Cys His Cys Ile Gly Cys Cys Ser Ser Ala Arg Ala
 1 5 10 15
 Val Ser Asp Leu Arg Arg Ala Gly Arg Cys Thr Gly Lys Thr Ile Met
 20 25 30
 Ser Thr His Ile Leu Phe Glu His Pro Leu Asn Glu Lys Met Arg Thr
 35 40 45
 Trp Leu Arg Ile Glu Phe Leu Ile Gln Gln Leu Ser Gln His Leu Pro
 50 55 60
 Val Asn Asp His Ala Thr Ala Leu His Phe Phe Arg Asn Val Gly Asp
 65 70 75 80
 Leu Leu Asp Val Ile Glu Arg Gly Asp Val Arg Thr Glu Leu Leu Lys
 85 90 95
 Glu Leu Glu Arg Gln Gln Arg Lys Leu Gln Ala Trp Ala Glu Val Pro
 100 105 110
 Gly Val Asp Gln Ser Arg Ile Asp Ala Leu Arg Gln Gln Leu Lys Asn
 115 120 125
 Ser Ser Thr Thr Leu Met Ala Ala Pro Arg Val Gly Gln Phe Leu Arg
 130 135 140
 Glu Asp Arg Leu Ile Ala Leu Val Arg Gln Arg Leu Ser Ile Pro Gly
 145 150 155 160
 Gly Cys Cys Ser Phe Asp Leu Pro Thr Leu His Met Trp Leu His Met
 165 170 175
 Pro Gln Glu Gln Arg Asp Arg Gln Val Asn Ser Trp Leu Gly Ser Leu
 180 185 190
 Glu Pro Met Asn Gln Thr Leu Ser Leu Ile Leu Asp Leu Val Arg Asn
 195 200 205
 Ser Ala Pro Phe Arg Lys Gln Thr Ser Leu Asn Gly Phe Tyr Gln Asp
 210 215 220
 Asn Gly Asp Asp Ala Asp Leu Leu Arg Leu Asn Leu Ser Leu Ser Glu
 225 230 235 240
 Gln Leu Tyr Pro Gln Ile Ser Gly His Lys Ser Arg Phe Ala Ile Arg
 245 250 255
 Phe Met Pro Leu Asp Ser Glu His Gly Thr Val Pro Glu Arg Leu Asp
 260 265 270
 Phe Glu Leu Ala Cys Cys
 275

<210> 9635

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 9635

Gly Val Pro Met Ser Asp Val Thr Thr Val Asn Cys Pro Thr Cys Gly
 1 5 10 15
 Lys Thr Val Val Trp Gly Glu Val Ser Pro Phe Arg Pro Phe Cys Cys
 20 25 30
 Lys Arg Cys Gln Leu Ile Asp Leu Gly Glu Trp Ala Ala Glu Glu Lys
 35 40 45
 Arg Ile Pro Ser Glu Gly Asp Leu Ser Asp Ser Asp Asp Trp Ser Glu
 50 55 60
 Asn Gln Gln
 65

<210> 9636

<211> 913

<212> PRT

<213> Enterobacter cloacae

<400> 9636

Met	Arg	Gly	Ser	Phe	Gln	Pro	Arg	Val	Arg	Leu	Leu	Leu	Ile	Lys	Leu
1				5					10					15	
Leu	Thr	Arg	Val	Phe	Gly	Ser	Arg	Asn	Asp	Arg	Thr	Leu	Arg	Arg	Met
			20					25					30		
Arg	Lys	Ala	Val	Asn	Val	Ile	Asn	Gly	Met	Glu	Pro	Ala	Met	Glu	Lys
		35					40					45			
Leu	Ser	Asp	Asp	Glu	Leu	Lys	Ala	Lys	Thr	Ala	Glu	Phe	Arg	Ala	Arg
	50					55				60					
Leu	Glu	Lys	Gly	Glu	Thr	Leu	Glu	Ser	Leu	Ile	Pro	Glu	Ala	Phe	Ala
65					70					75					80
Val	Val	Arg	Glu	Ala	Ser	Lys	Arg	Val	Phe	Gly	Met	Arg	His	Phe	Asp
				85					90					95	
Val	Gln	Leu	Leu	Gly	Gly	Met	Val	Leu	Asn	Glu	Arg	Cys	Ile	Ala	Glu
			100					105					110		
Met	Arg	Thr	Gly	Glu	Gly	Lys	Thr	Leu	Thr	Ala	Thr	Leu	Pro	Ala	Tyr
		115					120					125			
Leu	Asn	Ala	Leu	Thr	Gly	Lys	Gly	Val	His	Val	Val	Thr	Val	Asn	Asp
	130					135					140				
Tyr	Leu	Ala	Gln	Arg	Asp	Ala	Glu	Asn	Asn	Arg	Pro	Leu	Phe	Glu	Phe
145					150					155					160
Leu	Gly	Met	Thr	Val	Gly	Ile	Asn	Met	Ser	Gly	Leu	Pro	Ala	Pro	Ala
				165					170					175	
Lys	Arg	Glu	Ala	Tyr	Asn	Ala	Asp	Ile	Thr	Tyr	Gly	Thr	Asn	Asn	Glu
			180					185					190		
Tyr	Gly	Phe	Asp	Tyr	Leu	Arg	Asp	Asn	Met	Ala	Phe	Ser	Pro	Glu	Glu
		195					200					205			
Arg	Val	Gln	Arg	Lys	Leu	His	Tyr	Ala	Leu	Val	Asp	Glu	Val	Asp	Ser
	210					215					220				
Ile	Leu	Ile	Asp	Glu	Ala	Arg	Thr	Pro	Leu	Ile	Ile	Ser	Gly	Pro	Ala
225					230					235					240
Glu	Asp	Ser	Ser	Glu	Met	Tyr	Arg	Lys	Val	Asp	Lys	Ile	Ile	Pro	His
			245						250					255	
Leu	Leu	Arg	Gln	Glu	Lys	Glu	Asp	Ser	Asp	Thr	Phe	Gln	Gly	Glu	Gly
			260					265					270		
His	Phe	Ser	Val	Asp	Glu	Lys	Ala	Arg	Gln	Val	Asn	Leu	Thr	Glu	Arg
		275					280				285				
Gly	Leu	Val	Lys	Ile	Glu	Glu	Leu	Leu	Val	Ala	Glu	Gly	Ile	Met	Glu
	290					295					300				
Glu	Gly	Glu	Ser	Leu	Tyr	Ser	Pro	Ser	Asn	Ile	Met	Leu	Met	His	His
305					310					315					320
Val	Thr	Ala	Ala	Leu	Arg	Ala	His	Ala	Leu	Phe	Thr	Arg	Asp	Val	Asp
			325						330					335	
Tyr	Ile	Val	Lys	Asp	Gly	Glu	Val	Ile	Ile	Val	Asp	Glu	His	Thr	Gly
			340					345					350		
Arg	Thr	Met	Gln	Gly	Arg	Arg	Trp	Ser	Asp	Gly	Leu	His	Gln	Ala	Val
		355					360					365			
Glu	Ala	Lys	Glu	Gly	Val	Asp	Ile	Gln	Asn	Glu	Asn	Gln	Thr	Leu	Ala
					375						380				
Ser	Ile	Thr	Phe	Gln	Asn	Tyr	Phe	Arg	Leu	Tyr	Glu	Lys	Leu	Ala	Gly
385					390					395					400
Met	Thr	Gly	Thr	Ala	Asp	Thr	Glu	Ala	Phe	Glu	Phe	Ser	Ser	Ile	Tyr
				405					410					415	
Lys	Leu	Asp	Thr	Val	Val	Val	Pro	Thr	Asn	Arg	Pro	Met	Ile	Arg	Lys
			420					425					430		
Asp	Met	Pro	Asp	Leu	Val	Tyr	Met	Thr	Glu	Ala	Glu	Lys	Ile	Gln	Ala
		435					440					445			
Ile	Ile	Glu	Asp	Ile	Arg	Glu	Arg	Thr	Ala	Lys	Gly	Gln	Pro	Val	Leu
	450					455					460				
Val	Gly	Thr	Ile	Ser	Ile	Glu	Lys	Ser	Glu	Val	Val	Ser	Asn	Glu	Leu

465					470					475					480
Thr	Lys	Ala	Gly	Ile	Lys	His	Asn	Val	Leu	Asn	Ala	Lys	Phe	His	Ala
				485					490					495	
Lys	Glu	Ala	Asp	Ile	Val	Ala	Gln	Ala	Gly	Tyr	Pro	Ala	Ala	Val	Thr
			500					505					510		
Ile	Ala	Thr	Asn	Met	Ala	Gly	Arg	Gly	Thr	Asp	Ile	Met	Leu	Gly	Gly
		515					520					525			
Ser	Trp	Gln	Ala	Glu	Val	Ala	Glu	Leu	Glu	Asn	Pro	Thr	Pro	Glu	Gln
	530					535				540					
Ile	Ala	Gln	Ile	Lys	Ala	Asp	Trp	Gln	Val	Arg	His	Asp	Ala	Val	Leu
545				550					555					560	
Pro	Ser	Gly	Gly	Leu	His	Ile	Ile	Gly	Thr	Glu	Arg	His	Glu	Ser	Arg
			565					570					575		
Arg	Ile	Asp	Asn	Gln	Leu	Arg	Gly	Arg	Ala	Gly	Arg	Gln	Gly	Asp	Ala
		580					585					590			
Gly	Ser	Ser	Arg	Phe	Tyr	Leu	Ser	Met	Glu	Asp	Ala	Leu	Met	Arg	Ile
		595				600					605				
Phe	Ala	Ser	Asp	Arg	Val	Ser	Gly	Met	Met	Arg	Lys	Leu	Gly	Met	Lys
	610				615					620					
Pro	Gly	Glu	Ala	Ile	Glu	His	Pro	Trp	Val	Thr	Lys	Ala	Ile	Ala	Asn
625				630					635					640	
Ala	Gln	Arg	Lys	Val	Glu	Ser	Arg	Asn	Phe	Asp	Ile	Arg	Lys	Gln	Leu
			645					650					655		
Leu	Glu	Tyr	Asp	Asp	Val	Ala	Asn	Asp	Gln	Arg	Arg	Ala	Ile	Tyr	Thr
		660					665					670			
Gln	Arg	Asn	Glu	Leu	Leu	Asp	Val	Ser	Asp	Val	Ser	Glu	Thr	Ile	Asn
	675					680					685				
Ser	Ile	Arg	Glu	Asp	Val	Phe	Lys	Ala	Thr	Ile	Asp	Ala	His	Ile	Pro
	690				695					700					
Pro	Gln	Ser	Leu	Glu	Glu	Met	Trp	Asp	Ile	Glu	Gly	Leu	Gln	Glu	Arg
705			710						715					720	
Leu	Lys	Asn	Asp	Phe	Asp	Leu	Glu	Leu	Pro	Ile	Lys	Glu	Trp	Leu	Asp
		725						730					735		
Lys	Glu	Pro	Glu	Leu	His	Glu	Glu	Thr	Leu	Arg	Glu	Arg	Ile	Tyr	Glu
		740					745					750			
Thr	Ala	Leu	Asp	Val	Tyr	Lys	Arg	Lys	Glu	Glu	Val	Val	Gly	Ala	Glu
	755					760					765				
Met	Met	Arg	His	Phe	Glu	Lys	Gly	Val	Met	Leu	Gln	Thr	Leu	Asp	Ser
	770				775						780				
Leu	Trp	Lys	Glu	His	Leu	Ala	Ala	Met	Asp	Tyr	Leu	Arg	Gln	Gly	Ile
785			790						795					800	
His	Leu	Arg	Gly	Tyr	Ala	Gln	Lys	Asp	Pro	Lys	Gln	Glu	Tyr	Lys	Arg
		805						810					815		
Glu	Ser	Phe	Ser	Met	Phe	Ala	Ala	Met	Leu	Glu	Ser	Leu	Lys	Tyr	Glu
		820					825					830			
Val	Ile	Ser	Thr	Leu	Ser	Lys	Val	Gln	Val	Arg	Met	Pro	Glu	Glu	Val
	835					840					845				
Glu	Ala	Met	Glu	Gln	Gln	Arg	Glu	Glu	Ala	Glu	Arg	Leu	Ala	Gln	
	850				855				860						
Met	Gln	Gln	Leu	Ser	His	Gln	Thr	Asp	Glu	Ser	Glu	Ala	Ala	Ala	Ala
865			870						875					880	
Ile	Ala	Ala	Gln	Thr	Gly	Asp	Arg	Lys	Val	Gly	Arg	Asn	Asp	Pro	Cys
		885					890					895			
Pro	Cys	Gly	Ser	Gly	Lys	Lys	Tyr	Lys	Ala	Cys	His	Gly	Arg	Leu	Ser
		900					905					910			

<210> 9637

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 9637

Glu His Asn Lys Leu Lys Arg Arg Arg Tyr Leu Arg Leu Phe Tyr Gly
 1 5 10 15
 Ser Asp Met Met Lys Thr Leu Gln Ile Ala Val Gly Ile Ile Arg Asn
 20 25 30
 Pro Gln Asn Gln Ile Phe Ile Thr Gln Arg Ala Ala Asp Ala His Met
 35 40 45
 Ala Asn Lys Trp Glu Phe Pro Gly Gly Lys Ile Glu Ser Gly Glu Thr
 50 55 60
 Pro Glu Gln Ala Leu Val Arg Glu Leu Gln Glu Val Gly Ile Thr
 65 70 75 80
 Pro Leu Gly Ala Thr Leu Phe Asp Lys Leu Glu Tyr Gln Phe Pro Asp
 85 90 95
 Arg His Ile Thr Leu Trp Phe Trp Leu Val Glu Ser Trp Glu Gly Glu
 100 105 110
 Pro Trp Gly Lys Glu Gly Gln Pro Gly Gly Trp Val Thr Leu His Ala
 115 120 125
 Ser Asp Ala Glu Lys Phe Pro Pro Ala Asn Ala Pro Val Ile Ser Arg
 130 135 140
 Leu Thr Gly Asn Leu
 145 150

<210> 9638

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 9638

Arg His Trp Ser Cys Ala Phe Asn Ile Phe Ala Ser Asn Pro Arg Asn
 1 5 10 15
 Pro His Met Arg Ile Glu Glu Asp Leu Lys Leu Gly Phe Lys Asp Val
 20 25 30
 Leu Ile Arg Pro Lys Arg Ser Thr Leu Lys Ser Arg Ser Asp Val Glu
 35 40 45
 Leu Glu Arg Gln Phe Thr Phe Lys His Ser Gly Gln Thr Trp Ser Gly
 50 55 60
 Val Pro Ile Ile Ala Ala Asn Met Asp Thr Val Gly Thr Phe Glu Met
 65 70 75 80
 Ala Thr Ala Leu Ala Gln Phe Asp Ile Leu Thr Ala Val His Lys His
 85 90 95
 Tyr Ser Ala Glu Glu Trp Asp Ala Phe Val Ala Ser Ala Ser Ala Glu
 100 105 110
 Val Val Lys His Val Met Val Ser Thr Gly Thr Ser Asp Ala Asp Phe
 115 120 125
 Glu Lys Thr Lys Gln Ile Leu Asn Ala Asn Pro Ala Leu Asn Phe Val
 130 135 140
 Cys Ile Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Gln Phe Val
 145 150 155 160
 Ser Lys Ala Arg Glu Ala Trp Pro Thr Lys Thr Ile Ile Ala Gly Asn
 165 170 175
 Val Val Thr Gly Glu Met Cys Glu Glu Leu Ile Leu Ser Gly Ala Asp
 180 185 190
 Ile Val Lys Val Gly Ile Gly Pro Gly Ser Val Cys Thr Thr Arg Val
 195 200 205
 Lys Thr Gly Val Gly Tyr Pro Gln Leu Ser Ala Val Ile Glu Cys Ala
 210 215 220
 Asp Ala Ala His Gly Leu Gly Gly Gln Ile Ile Ser Asp Gly Gly Cys
 225 230 235 240
 Thr Met Pro Gly Asp Val Ala Lys Ala Phe Gly Gly Gly Ala Asp Phe

				245				250					255				
Val	Met	Leu	Gly	Gly	Met	Leu	Ala	Gly	His	Glu	Glu	Ser	Gly	Gly	Thr		
			260					265					270				
Val	Val	Glu	Asn	Gly	Glu	Lys	Phe	Met	Leu	Phe	Tyr	Gly	Met	Ser			
		275				280						285					
Ser	Glu	Ser	Ala	Met	Thr	Arg	His	Val	Gly	Gly	Val	Ala	Lys	Tyr	Arg		
	290					295					300						
Ala	Ala	Glu	Gly	Lys	Thr	Val	Lys	Leu	Pro	Leu	Arg	Gly	Pro	Val	Glu		
305					310					315					320		
Asn	Thr	Ala	Arg	Asp	Ile	Leu	Gly	Gly	Leu	Arg	Ser	Ala	Cys	Thr	Tyr		
			325					330						335			
Val	Gly	Ala	Ser	Arg	Leu	Lys	Glu	Leu	Thr	Lys	Arg	Thr	Thr	Phe	Ile		
		340					345						350				
Arg	Val	Gln	Glu	Gln	Glu	Asn	Arg	Val	Phe	Asn	Ser	Leu					
	355					360						365					

<210> 9639

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 9639

Ile	Arg	Ser	Ser	Met	Leu	Leu	Glu	Asn	Gly	Trp	Leu	Val	Asp	Ala			
1			5				10						15				
Arg	His	Val	Pro	Ser	Pro	His	His	Asp	Cys	Arg	Pro	Glu	Asp	Glu	Lys		
		20					25					30					
Pro	Thr	Leu	Leu	Val	Val	His	Asn	Ile	Ser	Leu	Pro	Pro	Gly	Glu	Phe		
		35				40					45						
Gly	Gly	Pro	Trp	Ile	Asp	Ala	Leu	Phe	Thr	Gly	Thr	Ile	Asp	Pro	Asp		
	50				55				60								
Ala	His	Pro	Phe	Phe	Ala	Glu	Ile	Ala	His	Leu	Arg	Val	Ser	Ala	His		
65				70					75						80		
Cys	Leu	Ile	Arg	Arg	Asp	Gly	Glu	Val	Val	Gln	Tyr	Val	Pro	Phe	Asp		
			85					90					95				
Lys	Arg	Ala	Trp	His	Ala	Gly	Val	Ser	Lys	Tyr	Gln	Gly	Arg	Glu	Arg		
		100					105					110					
Cys	Asn	Asp	Phe	Ser	Ile	Gly	Ile	Glu	Leu	Glu	Gly	Thr	Asp	Thr	Thr		
	115					120						125					
Pro	Tyr	Thr	Asp	Ala	Gln	Tyr	Glu	Lys	Leu	Val	Ala	Val	Thr	Gln	Thr		
	130				135						140						
Leu	Ile	Gly	Arg	Tyr	Pro	Ala	Ile	Ala	Asp	Asn	Ile	Thr	Gly	His	Ser		
145				150					155						160		
Asp	Ile	Ala	Pro	Glu	Arg	Lys	Thr	Asp	Pro	Gly	Pro	Ala	Phe	Asp	Trp		
		165						170					175				
Ser	Arg	Phe	His	Ala	Met	Leu	Thr	Thr	Ser	Ser	Asp	Lys	Glu	Ile	Thr		
		180					185						190				

<210> 9640

<211> 881

<212> PRT

<213> Enterobacter cloacae

<400> 9640

Arg	Glu	Arg	Pro	Pro	His	Met	Thr	Met	Arg	Ala	Arg	Arg	Thr	Val	Val		
1			5					10						15			
Leu	Glu	Glu	Tyr	Arg	Lys	His	Val	Ala	Glu	Arg	Ala	Ala	Glu	Gly	Ile		
		20					25					30					
Val	Pro	Lys	Pro	Leu	Asp	Ala	Thr	Gln	Met	Ala	Ala	Leu	Val	Glu	Leu		
	35						40					45					

Leu	Lys	Asn	Pro	Pro	Glu	Gly	Glu	Glu	Glu	Phe	Leu	Leu	Asp	Leu	Leu
	50					55					60				
Ile	Asn	Arg	Val	Pro	Pro	Gly	Val	Asp	Glu	Ala	Ala	Tyr	Val	Lys	Ala
65					70					75					80
Gly	Phe	Leu	Ala	Ala	Val	Ala	Lys	Gly	Glu	Ala	Thr	Ser	Pro	Leu	Val
				85					90					95	
Thr	Pro	Glu	Lys	Ala	Ile	Glu	Leu	Leu	Gly	Thr	Met	Gln	Gly	Gly	Tyr
			100					105					110		
Asn	Ile	His	Pro	Leu	Ile	Asp	Ala	Leu	Asp	Asn	Asp	Lys	Leu	Ala	Pro
		115					120					125			
Ile	Ala	Ala	Lys	Ala	Leu	Ser	Ser	Thr	Leu	Leu	Met	Phe	Asp	Asn	Phe
	130					135					140				
Tyr	Asp	Val	Glu	Glu	Lys	Ala	Lys	Ala	Gly	Asn	Val	Tyr	Ala	Lys	Gln
145					150					155					160
Val	Met	Gln	Ser	Trp	Ala	Asp	Ala	Glu	Trp	Phe	Leu	Asn	Arg	Pro	Gln
				165					170					175	
Leu	Ala	Glu	Lys	Ile	Thr	Val	Thr	Val	Phe	Lys	Val	Thr	Gly	Glu	Thr
			180					185					190		
Asn	Thr	Asp	Asp	Leu	Ser	Pro	Ala	Pro	Asp	Ala	Trp	Ser	Arg	Pro	Asp
		195					200					205			
Ile	Pro	Leu	His	Ala	Leu	Ala	Met	Leu	Lys	Asn	Ala	Arg	Glu	Gly	Ile
	210					215					220				
Glu	Pro	Asp	Gln	Pro	Gly	Ser	Val	Gly	Pro	Ile	Lys	Gln	Ile	Glu	Ala
225					230					235					240
Leu	Gln	Gln	Lys	Gly	Phe	Pro	Leu	Ala	Tyr	Val	Gly	Asp	Val	Val	Gly
				245					250					255	
Thr	Gly	Ser	Ser	Arg	Lys	Ser	Ala	Thr	Asn	Ser	Val	Leu	Trp	Phe	Met
			260					265					270		
Gly	Asp	Asp	Ile	Pro	His	Val	Pro	Asn	Lys	Arg	Gly	Gly	Gly	Leu	Cys
		275					280					285			
Leu	Gly	Gly	Lys	Ile	Ala	Pro	Ile	Phe	Phe	Asn	Thr	Met	Glu	Asp	Ala
	290					295					300				
Gly	Ala	Leu	Pro	Ile	Glu	Val	Asp	Val	Ser	Asn	Leu	Asn	Met	Gly	Asp
305					310					315					320
Val	Ile	Asp	Val	Tyr	Pro	Tyr	Lys	Gly	Glu	Val	Arg	Asn	His	Glu	Thr
				325					330					335	
Asn	Glu	Leu	Leu	Ala	Ser	Phe	Glu	Leu	Lys	Thr	Asp	Val	Leu	Ile	Asp
			340					345					350		
Glu	Val	Arg	Ala	Gly	Gly	Arg	Ile	Pro	Leu	Ile	Ile	Gly	Arg	Gly	Leu
		355					360					365			
Thr	Thr	Lys	Ala	Arg	Glu	Ala	Leu	Gly	Leu	Pro	His	Ser	Asp	Val	Phe
					375						380				
Arg	Gln	Ala	Lys	Asp	Val	Ala	Glu	Ser	Asn	Arg	Gly	Phe	Ser	Leu	Ala
385					390					395					400
Gln	Lys	Met	Val	Gly	Arg	Ala	Cys	Gly	Val	Ala	Gly	Ile	Arg	Pro	Gly
				405					410					415	
Ala	Tyr	Cys	Glu	Pro	Lys	Met	Thr	Ser	Val	Gly	Ser	Gln	Asp	Thr	Thr
			420					425					430		
Gly	Pro	Met	Thr	Arg	Asp	Glu	Leu	Lys	Asp	Leu	Ala	Cys	Leu	Gly	Phe
		435					440					445			
Ser	Ser	Asp	Leu	Val	Met	Gln	Ser	Phe	Cys	His	Thr	Ala	Ala	Tyr	Pro
	450					455					460				
Lys	Pro	Val	Asp	Val	Thr	Thr	His	His	Thr	Leu	Pro	Asp	Phe	Ile	Met
465					470					475					480
Asn	Arg	Gly	Gly	Val	Ser	Leu	Arg	Pro	Gly	Asp	Gly	Val	Ile	His	Ser
				485					490					495	
Trp	Leu	Asn	Arg	Met	Leu	Leu	Pro	Asp	Thr	Val	Gly	Thr	Gly	Gly	Asp
			500					505					510		
Ser	His	Thr	Arg	Phe	Pro	Ile	Gly	Ile	Ser	Phe	Pro	Ala	Gly	Ser	Gly
		515					520					525			
Leu	Val	Ala	Phe	Ala	Ala	Ala	Thr	Gly	Val	Met	Pro	Leu	Asp	Met	Pro

530		535		540
Glu Ser Val Leu Val Arg Phe Lys Gly Lys Met Gln Pro Gly Ile Thr				
545		550		555
Leu Arg Asp Leu Val His Ala Ile Pro Leu Tyr Ala Ile Lys Gln Gly				560
	565		570	575
Leu Leu Thr Val Glu Lys Lys Gly Lys Lys Asn Ile Phe Ser Gly Arg				
	580		585	590
Ile Leu Glu Ile Glu Gly Leu Pro Asp Leu Lys Val Glu Gln Ala Phe				
	595		600	605
Glu Leu Thr Asp Ala Ser Ala Glu Arg Ser Ala Ala Gly Cys Thr Ile				
	610		615	620
Lys Leu Asn Lys Glu Pro Ile Ile Glu Tyr Leu Asn Ser Asn Ile Val				
625		630		635
Leu Leu Lys Trp Met Ile Ala Glu Gly Tyr Gly Asp Arg Arg Thr Leu				
	645		650	655
Glu Arg Arg Ile Gln Gly Met Glu Lys Trp Leu Ala Asp Pro Gln Leu				
	660		665	670
Leu Glu Ala Asp Ala Asp Ala Glu Tyr Ala Ala Val Ile Asp Ile Asp				
	675		680	685
Leu Ala Asp Ile Lys Glu Pro Ile Leu Cys Ala Pro Asn Asp Pro Asp				
	690		695	700
Asp Ala Arg Pro Leu Ser Glu Val Gln Gly Glu Lys Ile Asp Glu Val				
705		710		715
Phe Ile Gly Ser Cys Met Thr Asn Ile Gly His Phe Arg Ala Ala Gly				
	725		730	735
Lys Leu Leu Asp Thr His Lys Gly Gln Leu Pro Thr Arg Leu Trp Val				
	740		745	750
Ala Pro Pro Thr Arg Met Asp Ala Ala Gln Leu Thr Glu Gly Tyr				
	755		760	765
Tyr Ser Val Phe Gly Lys Ser Gly Ala Arg Ile Glu Ile Pro Gly Cys				
	770		775	780
Ser Leu Cys Met Gly Asn Gln Ala Arg Val Ala Asp Gly Ala Thr Val				
785		790		795
Val Ser Thr Ser Thr Arg Asn Phe Pro Asn Arg Leu Gly Thr Gly Ala				
	805		810	815
Asn Val Phe Leu Ala Ser Ala Glu Leu Ala Ala Val Ala Ala Leu Ile				
	820		825	830
Gly Lys Leu Pro Thr Pro Glu Glu Tyr Gln Thr Phe Val Ala Gln Val				
	835		840	845
Asp Lys Thr Ala Val Asp Thr Tyr Arg Tyr Leu Asn Phe Asp Gln Leu				
	850		855	860
Ser Gln Tyr Thr Glu Lys Ala Asp Gly Val Ile Phe Gln Thr Ala Val				
865		870		875
				880

<210> 9641

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 9641

Asn His Leu Val Ser Asn Met Lys His Thr Val Glu Val Met Ile Pro				
1	5		10	15
Glu Ala Glu Ile Lys Ala Arg Ile Ala Glu Leu Gly Arg Gln Ile Thr				
	20		25	30
Glu His Tyr Lys Asp Ser Gly Ser Glu Met Val Leu Val Gly Leu Leu				
	35		40	45
Arg Gly Ser Phe Met Phe Met Ala Asp Leu Cys Arg Glu Val Gln Val				
	50		55	60
Pro His Glu Val Asp Phe Met Thr Ala Ser Ser Tyr Gly Ser Gly Met				

305

310

<210> 9643

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9643

Thr	Thr	Arg	Leu	Leu	Arg	Arg	Asp	Val	Met	Leu	Gly	Trp	Val	Ile	Thr
1				5					10					15	
Cys	His	Asp	Glu	Glu	Ala	Gln	Glu	Met	Leu	Leu	Lys	Leu	Glu	Ala	Arg
			20					25					30		
Phe	Gly	Pro	Leu	Ala	Gln	Cys	Arg	Ala	Val	Asn	Tyr	Trp	Arg	Gly	Leu
			35				40					45			
Ser	Thr	Asn	Met	Leu	Ser	Arg	Met	Met	Cys	Asp	Ala	Leu	His	Glu	Thr
	50					55				60					
Asp	Thr	Gly	Asp	Gly	Val	Ile	Phe	Leu	Thr	Asp	Lys	Ser	Gly	Ala	Ala
65					70					75					80
Pro	Tyr	Arg	Ser	Ala	Ala	Leu	Met	Ser	His	Lys	His	Asp	Asn	Cys	Glu
				85					90					95	
Val	Ile	Ser	Gly	Ile	Ser	Leu	Pro	Leu	Leu	Glu	Ala	Met	Tyr	Pro	Leu
			100					105					110		
Arg	Ala	Thr	Leu	Ser	Ser	Ala	Glu	Phe	Arg	His	Ala	Ile	Val	Ala	Gln
		115					120					125			
Gly	Ser	Pro	Gly	Val	Ser	Ser	Leu	Trp	His	Gln	Gln	Gln	Lys	Asn	Pro
	130					135					140				
Pro	Phe	Val	Leu	Leu	His	Asp	Leu	Tyr	Lys	His					
145					150					155					

<210> 9644

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9644

Thr	Leu	Val	Leu	Met	Ser	Leu	Leu	Leu	Gln	Trp	Arg	Leu	Ile	Phe	Arg
1				5					10					15	
Ile	Asp	Leu	Tyr	Pro	Met	Leu	Met	Arg	Val	Ile	Phe	Ile	Leu	Leu	Val
			20					25					30		
Leu	Val	Ser	Gly	Gly	Ala	Ser	Ala	Ser	Leu	Thr	Ser	Gln	Gln	Gly	Leu
			35				40					45			
Pro	Ala	Gln	Tyr	Met	Gln	Thr	Thr	Glu	Asp	Ala	Ala	Ile	Trp	Ala	Gln
	50					55				60					
Val	Gly	Asn	Ala	Val	Val	Asn	Val	Gly	Asn	Val	Arg	Ala	Gly	Gln	Ile
65				70					75					80	
Leu	Ala	Val	Phe	Pro	Ala	Ala	Ala	Asp	Tyr	Tyr	Glu	Phe	Arg	Phe	Gly
			85					90					95		
Phe	Gly	Thr	Gly	Phe	Ile	Asp	Lys	Asp	His	Leu	Glu	Lys	Val	Gln	Gly
			100					105					110		
Lys	Gln	Arg	Val	Glu	Asp	Ser	Leu	Gly	Asp	Leu	Asn	Lys	Pro	Leu	Ser
		115				120						125			
Asn	Gln	Asn	Leu	Ile	Thr	Trp	Lys	Asp	Thr	Pro	Val	Tyr	Asn	Ala	Pro
	130					135					140				
Ser	Ser	Gly	Ser	Ala	Pro	Phe	Gly	Thr	Leu	Ser	Ala	Asn	Leu	Arg	Tyr
145				150					155					160	
Pro	Ile	Leu	Asn	Lys	Leu	Lys	Asp	Arg	Leu	Asn	Gln	Thr	Trp	Phe	Gln
			165						170					175	
Ile	Arg	Ile	Gly	Asn	Arg	Leu	Ala	Trp	Ile	Ser	Ser	Leu	Asp	Ala	Gln
			180					185					190		
Glu	Asp	Asn	Gly	Leu	Pro	Val	Leu	Thr	Tyr	His	His	Ile	Leu	Arg	Asp
		195					200					205			

Glu Glu Asn Thr Arg Phe Arg His Thr Ser Thr Thr Thr Ser Val Arg
 210 215 220
 Ala Phe Asn Asn Gln Met Ala Trp Leu Arg Asp Gln Gly Tyr Thr Thr
 225 230 235 240
 Leu Thr Met Tyr Gln Leu Glu Gly Tyr Val Arg Asn Lys Met Asn Leu
 245 250 255
 Pro Ala Lys Ala Val Val Ile Thr Phe Asp Asp Gly Leu Lys Ser Val
 260 265 270
 Ser Arg Tyr Ala Tyr Pro Val Leu Lys Glu Tyr Gly Phe Asn Ala Thr
 275 280 285
 Ala Phe Ile Ile Ser Ser Arg Ile Lys Gly His Pro Gln Lys Trp Asp
 290 295 300
 Pro Lys Ser Leu Gln Phe Met Ser Val Gln Glu Ile Lys Gly Ile Gln
 305 310 315 320
 Asp Val Phe Asp Ile Gln Ser His Thr His Phe Leu His Arg Val Asp
 325 330 335
 Gly Tyr Lys His Pro Ile Leu Leu Ser Arg Ser Tyr His Val Ile Leu
 340 345 350
 Phe Asp Phe Glu Arg Ser Arg Arg Ala Leu Ala Gln Phe Asn Pro Arg
 355 360 365
 Val Leu Tyr Val Ser Tyr Pro Phe Gly Gly Tyr Asp Asn Lys Ala Ile
 370 375 380
 Lys Ala Ala Asn Asp Ala Gly Phe His Leu Ala Val Thr Thr Met Lys
 385 390 395 400
 Gly Lys Val Lys Pro Gly Asp Asn Pro Phe Leu Leu Lys Arg Leu Tyr
 405 410 415
 Ile Leu Arg Thr Asp Ser Leu Glu Thr Met Ser Arg Leu Ile Ser Asn
 420 425 430
 Gln Pro Gln Gly
 435

<210> 9645

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9645

Gln Gly Gly Arg Asp Ser Arg Leu Ser Arg Val Val Arg Gly Gln Ala
 1 5 10 15
 Leu Ala Ser His Leu Phe Phe Ala Asp Phe Cys Gln Arg Phe Thr Val
 20 25 30
 Asp Ala Gln Ile Gly Cys Trp Thr Arg Phe Gln Ala Thr Asn Thr Asp
 35 40 45
 Phe Asn Thr Ala Gly Phe Ala Val Ala Lys Ile Phe Val Leu Asp Leu
 50 55 60
 Leu Gln Arg Phe Phe Asp Leu Phe Asp Gln Phe Ala Leu Ala Val Thr
 65 70 75 80
 Val Thr Gln Phe Glu Ala Glu Leu Phe Phe Leu Ser Gly Thr Val Asp
 85 90 95
 Arg Val Arg Glu Val Ser Ser Phe Val Leu His Met Cys Asn Gly Ala
 100 105 110
 Ile Asp Phe Ile Pro Glu Leu Ile Thr Pro Cys Phe Lys Asn Thr Leu
 115 120 125
 Glu Val Arg Gln Leu Gly Phe Val His Ile Leu Phe Ala Arg Leu Leu
 130 135 140
 Leu Ile Arg Leu His Pro Ser Asp Gly Glu Asn Thr Gln Gly Arg Cys
 145 150 155 160
 Phe Thr Val Leu Pro Phe Leu His Val Ala Ser Pro
 165 170

<210> 9646

<211> 643
 <212> PRT
 <213> Enterobacter cloacae

<400> 9646

Pro	Ala	Ser	Gly	Val	Arg	Gly	Lys	Arg	Ile	Met	Ala	Ile	Glu	Ile	Asn
1				5					10					15	
Val	Pro	Asp	Ile	Gly	Ala	Asp	Glu	Val	Glu	Ile	Thr	Glu	Ile	Leu	Val
			20					25					30		
Lys	Val	Gly	Asp	Lys	Val	Glu	Ala	Glu	Gln	Ser	Leu	Ile	Thr	Val	Glu
		35					40					45			
Gly	Asp	Lys	Ala	Ser	Met	Glu	Val	Pro	Ser	Pro	Gln	Ala	Gly	Ile	Val
	50					55					60				
Lys	Glu	Ile	Lys	Val	Ser	Val	Gly	Asp	Lys	Thr	Glu	Thr	Gly	Lys	Leu
65					70					75					80
Ile	Met	Ile	Phe	Asp	Ser	Ala	Asp	Gly	Ala	Ala	Ala	Ala	Ala	Pro	Ala
				85					90					95	
Gln	Glu	Glu	Lys	Lys	Glu	Ala	Ala	Pro	Ala	Ala	Ala	Pro	Ala	Ala	Ala
			100					105					110		
Ala	Ala	Ala	Lys	Glu	Val	Asn	Val	Pro	Asp	Ile	Gly	Gly	Asp	Glu	Val
			115				120					125			
Glu	Val	Thr	Glu	Ile	Leu	Val	Lys	Val	Gly	Asp	Thr	Val	Ala	Ala	Glu
	130					135					140				
Gln	Ser	Leu	Ile	Thr	Val	Glu	Gly	Asp	Lys	Ala	Ser	Met	Glu	Val	Pro
145					150					155					160
Ala	Pro	Phe	Ala	Gly	Thr	Val	Lys	Glu	Ile	Lys	Ile	Asn	Thr	Gly	Asp
				165					170					175	
Lys	Val	Ser	Thr	Gly	Ser	Leu	Ile	Met	Ile	Phe	Glu	Val	Ala	Gly	Ser
			180					185					190		
Glu	Gly	Ala	Ala	Ala	Pro	Ala	Lys	Ala	Glu	Ala	Ala	Pro	Ala	Pro	Ala
		195					200					205			
Ala	Ala	Pro	Ala	Ala	Ala	Gly	Gly	Val	Lys	Asp	Val	Asn	Val	Pro	Asp
		210				215					220				
Ile	Gly	Gly	Asp	Glu	Val	Glu	Val	Thr	Glu	Val	Met	Val	Lys	Val	Gly
225					230					235					240
Asp	Lys	Val	Ala	Ala	Glu	Gln	Ser	Leu	Ile	Thr	Val	Glu	Gly	Asp	Lys
				245					250					255	
Ala	Ser	Met	Glu	Val	Pro	Ala	Pro	Phe	Ala	Gly	Thr	Val	Lys	Glu	Ile
			260					265					270		
Lys	Ile	Ser	Thr	Gly	Asp	Lys	Val	Ser	Thr	Gly	Ser	Leu	Ile	Met	Val
		275					280					285			
Phe	Glu	Val	Glu	Gly	Ala	Ala	Pro	Ala	Ala	Ala	Pro	Ala	Ala	Ala	Ala
	290					295					300				
Ala	Pro	Ala	Pro	Ala	Ala	Ala	Pro	Ala	Gln	Ala	Ala	Lys	Pro	Ala	Ala
305					310					315					320
Ala	Pro	Ala	Ala	Lys	Ala	Glu	Lys	Ser	Glu	Phe	Ala	Glu	Asn	Asp	Ala
				325					330					335	
Tyr	Val	His	Ala	Thr	Pro	Leu	Ile	Arg	Arg	Leu	Ala	Arg	Glu	Phe	Gly
			340					345					350		
Val	Asn	Leu	Ala	Lys	Val	Lys	Gly	Thr	Gly	Arg	Lys	Gly	Arg	Ile	Leu
		355					360					365			
Arg	Glu	Asp	Val	Gln	Ala	Tyr	Val	Lys	Asp	Ala	Val	Lys	Arg	Ala	Glu
	370					375					380				
Ala	Ala	Pro	Ala	Ala	Ala	Ala	Gly	Gly	Gly	Ile	Pro	Gly	Met	Leu	Pro
385					390					395					400
Trp	Pro	Lys	Val	Asp	Phe	Ser	Lys	Phe	Gly	Glu	Ile	Glu	Glu	Val	Glu
				405					410					415	
Leu	Gly	Arg	Ile	Gln	Lys	Ile	Ser	Gly	Ala	Asn	Leu	Ser	Arg	Asn	Trp
			420					425					430		
Val	Met	Ile	Pro	His	Val	Thr	His	Phe	Asp	Lys	Thr	Asp	Ile	Thr	Asp
		435					440					445			

Leu Glu Ala Phe Arg Lys Gln Gln Asn Ala Glu Ala Glu Lys Arg Lys
 450 455 460
 Leu Asp Val Lys Phe Thr Pro Val Val Phe Ile Met Lys Ala Val Ala
 465 470 475 480
 Ala Ala Leu Glu Gln Met Pro Arg Phe Asn Ser Ser Leu Ser Glu Asp
 485 490 495
 Gly Gln Lys Leu Thr Leu Lys Lys Tyr Ile Asn Ile Gly Val Ala Val
 500 505 510
 Asp Thr Pro Asn Gly Leu Val Val Pro Val Phe Lys Asp Val Asn Lys
 515 520 525
 Lys Ser Val Thr Glu Leu Ser Arg Glu Leu Thr Thr Ile Ser Lys Lys
 530 535 540
 Ala Arg Asp Gly Lys Leu Thr Ala Gly Glu Met Gln Gly Gly Cys Phe
 545 550 555 560
 Thr Ile Ser Ser Ile Gly Gly Leu Gly Thr Thr His Phe Ala Pro Ile
 565 570 575
 Val Asn Ala Pro Glu Val Ala Ile Leu Gly Val Ser Lys Ser Ala Met
 580 585 590
 Glu Pro Val Trp Asn Gly Lys Glu Phe Val Pro Arg Leu Met Met Pro
 595 600 605
 Ile Ser Leu Ser Phe Asp His Arg Val Ile Asp Gly Ala Asp Gly Ala
 610 615 620
 Arg Phe Ile Thr Ile Ile Asn Asn Met Leu Ser Asp Ile Arg Arg Leu
 625 630 635 640
 Val Met

<210> 9647
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 9647
 Gly His Gln Ala Ala Gly Ser Cys Ser His Leu Phe Ile Phe Ile Pro
 1 5 10 15
 Pro Thr Ser Pro Ala Phe Phe Leu Pro Arg Cys Cys Asp Asn Tyr Leu
 20 25 30
 Asn Gly Phe Ala Glu Glu Asn Ala Met Asp Tyr Glu Phe Leu Arg Asp
 35 40 45
 Ile Thr Gly Val Val Lys Val Arg Met Ser Met Gly His Glu Ala Val
 50 55 60
 Gly His Trp Phe Asn Glu Glu Val Lys Glu Asn Leu Ala Leu Leu Asp
 65 70 75 80
 Glu Val Glu Gln Ala Ala Glu Thr Val Lys Gly Ser Glu Arg Ser Trp
 85 90 95
 Gln Arg Ala Gly His Glu Tyr Thr Leu Trp Met Asp Gly Glu Glu Val
 100 105 110
 Met Val Arg Ala Asn Gln Leu Glu Leu Ser Gly Asp Glu Met Glu Glu
 115 120 125
 Gly Met Ser Tyr Tyr Asp Glu Glu Ser Leu Ser Leu Cys Gly Val Glu
 130 135 140
 Asp Phe Leu Ser Val Val Asn Ala Tyr Arg Asp Phe Met Lys Gln Lys
 145 150 155 160

<210> 9648
 <211> 810
 <212> PRT
 <213> Enterobacter cloacae

<400> 9648

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Leu	Glu	His	Ala	Pro	Gln	Val	Leu	Leu	Ser	Ala	Pro	Thr	Gly	Ala	Gly
			20					25					30		
Lys	Ser	Thr	Trp	Leu	Pro	Leu	Gln	Ile	Leu	Arg	Asp	Gly	Asn	Ile	Ser
		35					40					45			
Gly	Lys	Ile	Ile	Leu	Leu	Glu	Pro	Arg	Arg	Leu	Ala	Ala	Arg	Asn	Val
	50					55					60				
Ala	Gln	Arg	Leu	Ala	Glu	Leu	Leu	Asn	Glu	Lys	Pro	Gly	Glu	Thr	Val
65					70					75					80
Gly	Tyr	Arg	Met	Arg	Ala	Glu	Thr	Cys	Val	Gly	Pro	Ser	Thr	Arg	Leu
				85					90					95	
Glu	Val	Val	Thr	Glu	Gly	Ile	Leu	Thr	Arg	Met	Leu	Gln	Asn	Asp	Pro
			100					105					110		
Glu	Leu	Thr	Gly	Val	Gly	Leu	Val	Ile	Leu	Asp	Glu	Phe	His	Glu	Arg
		115					120					125			
Ser	Leu	Gln	Ala	Asp	Leu	Ala	Leu	Ala	Leu	Leu	Leu	Asp	Val	Gln	Gln
	130					135						140			
Gly	Leu	Arg	Asp	Asp	Leu	Arg	Leu	Leu	Ile	Met	Ser	Ala	Thr	Leu	Asp
145					150					155					160
Asn	Glu	Arg	Leu	Arg	Gln	Thr	Leu	Pro	Asp	Ala	Pro	Met	Ile	Ser	Ser
				165					170					175	
Glu	Gly	Arg	Ala	Phe	Pro	Val	Glu	Arg	Arg	Tyr	Gln	Pro	Leu	Pro	Ala
			180					185					190		
His	Gln	Arg	Phe	Asp	Glu	Ala	Val	Ala	Ile	Ala	Thr	Ala	Glu	Leu	Leu
		195					200					205			
Arg	Gln	Glu	Pro	Gly	Ser	Leu	Leu	Leu	Phe	Leu	Pro	Gly	Val	Gly	Glu
	210					215					220				
Ile	Gln	Arg	Val	Gln	Glu	Gln	Leu	Ala	Ser	Arg	Val	Asp	Ser	Asp	Val
225					230					235					240
Met	Leu	Cys	Pro	Leu	Tyr	Gly	Ala	Leu	Pro	Leu	Ala	Asp	Gln	Arg	Lys
				245					250					255	
Ala	Ile	Leu	Pro	Ala	Pro	Ala	Gly	Gln	Arg	Lys	Val	Val	Leu	Ala	Thr
			260				265						270		
Asn	Ile	Ala	Glu	Thr	Ser	Leu	Thr	Ile	Glu	Gly	Ile	Arg	Leu	Val	Val
	275						280					285			
Asp	Ser	Thr	Leu	Glu	Arg	Val	Ala	Ser	Phe	Asp	Pro	Arg	Ser	Gly	Leu
290						295					300				
Thr	Arg	Leu	Leu	Thr	Gln	Arg	Ile	Ser	Gln	Ala	Ser	Met	Val	Gln	Arg
305					310					315					320
Ala	Gly	Arg	Ala	Gly	Arg	Leu	Glu	Pro	Gly	Ile	Cys	Leu	His	Leu	Thr
			325						330					335	
Ser	Ala	Glu	Gln	Ala	Glu	Arg	Ala	Ala	Phe	Gln	Ser	Thr	Pro	Glu	Ile
			340					345					350		
Leu	Gln	Ser	Asp	Leu	Ser	Gly	Leu	Val	Met	Asp	Met	Met	Gln	Trp	Gly
		355					360					365			
Cys	Pro	Asp	Pro	Asp	Gln	Leu	Thr	Trp	Leu	Asn	Pro	Pro	Pro	Val	Val
	370					375					380				
Asn	Leu	Ser	Ala	Ala	Arg	Ser	Leu	Leu	Thr	Gln	Leu	Gly	Ala	Leu	Glu
385					390					395					400
Gly	Glu	Arg	Leu	Thr	Ala	Arg	Gly	Gln	Lys	Met	Ala	Ala	Leu	Gly	Asn
			405						410					415	
Asp	Pro	Arg	Leu	Ala	Ala	Met	Leu	Val	Ala	Ala	Gln	Gly	Asp	Asp	Glu
			420					425					430		
Ile	Ala	Thr	Ala	Ala	Lys	Leu	Ala	Ala	Ile	Leu	Glu	Glu	Pro	Pro	Arg
	435						440					445			
Gly	Gly	Gly	Ser	Asp	Leu	Gly	Gln	Ala	Phe	Ser	Arg	His	Gln	Gly	Asn
	450					455					460				
Trp	Gln	Gln	Arg	Ala	Gln	Gln	Leu	Cys	Lys	Arg	Leu	Asn	Cys	Arg	Gly
465					470					475					480

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Gly Ser Pro Asp Ser Asp Lys Val Ile Pro Leu Leu Ala Gln Ala Phe
 485 490 495
 Pro Asp Arg Ile Ala Arg Arg Arg Gly Leu Asp Gly Arg Tyr Gln Leu
 500 505 510
 Ala Asn Gly Met Gly Ala Met Leu Asp Ser Asp Asp Ala Leu Thr Arg
 515 520 525
 His Glu Trp Leu Ile Ala Pro Leu Leu Leu Gln Gly Ser His Ser Pro
 530 535 540
 Asp Ala Arg Ile Leu Gln Ala Val Ala Val Asp Ile Asp Leu Leu Thr
 545 550 555 560
 Arg Ala Cys Pro Gln Leu Leu Gln Gln Ser Asp Ile Val Glu Trp Asp
 565 570 575
 Asp Thr Gln Gly Thr Leu Lys Ala Phe Arg Arg Ser Gln Ile Gly Lys
 580 585 590
 Leu Thr Leu Gly Thr Lys Pro Leu Ala Lys Pro Ser Glu Glu Glu Leu
 595 600 605
 His Gln Ala Met Leu Asn Gly Ile Arg Glu Lys Gly Leu Ser Val Leu
 610 615 620
 Asn Trp Thr Pro Glu Ala Glu Gln Tyr Arg Ile Arg Leu His Cys Ala
 625 630 635 640
 Ala Lys Trp Leu Pro Glu Gln Gly Trp Pro Ala Val Asp Asp Glu Thr
 645 650 655
 Leu Leu Ala Thr Leu Glu Gln Trp Leu Leu Pro Gln Met Ser Gly Val
 660 665 670
 His Ser Leu Arg Ala Leu Lys Ala Leu Asp Val Lys Ala Ala Leu Gln
 675 680 685
 Asn Leu Leu Asp Trp Ser Leu Arg Gln Arg Leu Asp Ser Glu Leu Pro
 690 695 700
 Gly His Tyr Thr Val Pro Thr Gly Ser Arg Ile Ala Ile Arg Tyr His
 705 710 715 720
 Glu Asp Asn Pro Pro Ala Leu Ala Val Arg Met Gln Glu Met Phe Gly
 725 730 735
 Glu Ala Thr Thr Pro Ser Ile Ala Glu Gly Arg Val Pro Leu Val Leu
 740 745 750
 Glu Leu Leu Ser Pro Ala His Arg Pro Leu Gln Ile Thr Arg Asp Leu
 755 760 765
 Gly Ala Phe Trp Ala Gly Ser Tyr Arg Glu Val Gln Lys Glu Met Lys
 770 775 780
 Gly Arg Tyr Pro Lys His Val Trp Pro Asp Asp Pro Ala Asn Thr Ala
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 Pro Thr Arg Arg Thr Lys Lys Tyr Ser
 805 810

<210> 9649

<211> 652

<212> PRT

<213> Enterobacter cloacae

<400> 9649

Met Leu Arg Arg Lys Ser Met Ala Gly Asn Asp Arg Glu Pro Ile Gly
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 Arg Leu Arg Asp Glu Glu Tyr Asp Asp Asp Tyr Glu Asp Asp Tyr Glu
 35 40 45
 Asp Glu Glu Pro Met Pro Arg Lys Gly Lys Gly Lys Arg Lys Pro
 50 55 60
 Arg Gly Lys Arg Gly Trp Phe Trp Leu Leu Leu Lys Leu Phe Ile Val
 65 70 75 80
 Phe Val Val Leu Ile Ala Ile Tyr Gly Val Tyr Leu Asp Gln Lys Ile
 85 90 95

Arg	Ser	Arg	Ile	Asp	Gly	Lys	Val	Trp	Gln	Leu	Pro	Ala	Ala	Val	Tyr
			100					105					110		
Gly	Arg	Met	Val	Asn	Leu	Glu	Pro	Asp	Met	Ser	Ile	Ser	Lys	Asn	Glu
		115					120					125			
Met	Val	Lys	Leu	Leu	Gln	Ala	Thr	Gln	Tyr	Arg	Gln	Val	Thr	Lys	Met
		130				135					140				
Thr	Arg	Pro	Gly	Glu	Phe	Thr	Val	Gln	Ala	Lys	Ser	Ile	Glu	Met	Ile
145					150					155					160
Arg	Arg	Pro	Phe	Asp	Phe	Pro	Asp	Ser	Lys	Glu	Gly	Gln	Val	Arg	Ala
			165					170						175	
Arg	Leu	Thr	Phe	Asp	Gly	Asp	Arg	Leu	Glu	Thr	Ile	Glu	Asn	Met	Asp
			180					185					190		
Asn	Asp	Arg	Gln	Phe	Gly	Phe	Phe	Arg	Leu	Asp	Pro	Arg	Leu	Ile	Thr
		195					200					205			
Met	Leu	Ser	Ser	Ala	Asn	Gly	Glu	Gln	Arg	Leu	Phe	Val	Ala	Arg	Asn
		210				215					220				
Gly	Phe	Pro	Asp	Leu	Leu	Val	Asp	Thr	Leu	Leu	Ala	Thr	Glu	Asp	Arg
225					230					235					240
His	Phe	Tyr	Glu	His	Asp	Gly	Ile	Ser	Leu	Tyr	Ser	Ile	Gly	Arg	Ala
			245					250						255	
Val	Leu	Ala	Asn	Leu	Thr	Ala	Gly	Arg	Thr	Val	Gln	Gly	Ala	Ser	Thr
			260					265					270		
Leu	Thr	Gln	Gln	Leu	Val	Lys	Asn	Leu	Phe	Leu	Ser	Ser	Glu	Arg	Ser
		275					280					285			
Tyr	Trp	Arg	Lys	Ala	Asn	Glu	Ala	Tyr	Met	Ala	Val	Leu	Met	Asp	Ala
		290				295				300					
Arg	Tyr	Ser	Lys	Asp	Arg	Ile	Leu	Glu	Leu	Tyr	Met	Asn	Glu	Val	Tyr
305				310						315					320
Leu	Gly	Gln	Ser	Gly	Asp	Asn	Glu	Ile	Arg	Gly	Phe	Pro	Leu	Ala	Ser
			325						330					335	
Leu	Tyr	Tyr	Phe	Gly	Arg	Pro	Val	Glu	Glu	Leu	Ser	Leu	Asp	Gln	Gln
			340					345					350		
Ala	Leu	Leu	Val	Gly	Met	Val	Lys	Gly	Ala	Ser	Ile	Tyr	Asn	Pro	Trp
		355					360					365			
Arg	Asn	Pro	Lys	Leu	Ala	Leu	Glu	Arg	Arg	Asn	Leu	Val	Leu	Arg	Leu
		370				375					380				
Leu	Gln	Gln	Gln	Gln	Val	Ile	Asp	Gln	Glu	Leu	Tyr	Asp	Met	Leu	Ser
385					390					395					400
Ala	Arg	Pro	Leu	Gly	Val	Gln	Pro	Arg	Gly	Gly	Val	Ile	Ser	Pro	Gln
			405						410					415	
Pro	Ala	Phe	Met	Gln	Met	Val	Arg	Gln	Glu	Leu	Gln	Ser	Lys	Leu	Gly
			420					425					430		
Asp	Lys	Val	Lys	Asp	Leu	Ser	Gly	Val	Lys	Ile	Phe	Thr	Thr	Phe	Asp
		435					440					445			
Ser	Val	Ala	Gln	Asp	Ala	Ala	Glu	Lys	Ala	Ala	Val	Glu	Gly	Ile	Pro
		450				455					460				
Ala	Leu	Lys	Lys	Gln	Arg	Lys	Leu	Ser	Asp	Leu	Glu	Thr	Ala	Met	Val
465					470					475					480
Val	Val	Asp	Arg	Asn	Thr	Gly	Glu	Val	Arg	Ala	Met	Val	Gly	Gly	Ala
			485						490					495	
Glu	Pro	Gln	Tyr	Ala	Gly	Tyr	Asn	Arg	Ala	Met	Gln	Ala	Arg	Arg	Ser
			500					505					510		
Ile	Gly	Ser	Leu	Ala	Lys	Pro	Ala	Thr	Tyr	Leu	Thr	Ala	Leu	Ser	Gln
		515					520					525			
Pro	Asn	Leu	Tyr	Arg	Leu	Asn	Thr	Trp	Ile	Ala	Asp	Ala	Pro	Ile	Ser
		530				535					540				
Leu	Arg	Gln	Pro	Asn	Gly	Gln	Val	Trp	Ser	Pro	Gln	Asn	Asp	Asp	Arg
545					550					555					560
Gln	Phe	Ser	Gly	Gln	Val	Met	Leu	Val	Asp	Ala	Leu	Thr	Arg	Ser	Met
			565						570					575	
Asn	Val	Pro	Thr	Val	Asn	Leu	Gly	Met	Ala	Leu	Gly	Leu	Pro	Ala	Ile

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<211> 174
<212> PRT
<213> Enterobacter cloacae
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<211> 288
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Arg	Leu	Phe	Lys	Leu	Gly	Glu	His	Trp	His	Leu	Asp	His	Arg	Leu	Glu
			20					25					30		
Val	Leu	Phe	Arg	Arg	Ile	Arg	His	Phe	Ser	Met	Leu	Arg	Thr	Leu	Leu
		35					40					45			
Met	Ala	Ala	Gly	Val	Met	Ala	Ile	Thr	Phe	Leu	Leu	Leu	Arg	Ser	Leu
	50					55					60				
Tyr	Gly	Leu	Phe	Phe	Asn	Val	Pro	Leu	Leu	Val	Val	Trp	Ile	Leu	Leu
65					70					75					80
Gly	Val	Leu	Cys	Ile	Gly	Ala	Gly	Lys	Val	Arg	Leu	His	Tyr	His	Ala
				85					90					95	
Tyr	Leu	Lys	Ala	Ala	Ser	Arg	Asp	Asp	Ala	His	Ala	Arg	Gly	Ala	Met
			100					105					110		
Ala	Ser	Glu	Leu	Thr	Met	Ile	His	Gly	Val	Pro	Pro	Asp	Cys	Asp	Glu
		115					120					125			

Arg Glu Phe Leu Arg Glu Leu Gln Asn Ala Leu Leu Trp Ile Asn Phe
 130 135 140
 Arg Tyr Tyr Leu Ala Pro Leu Phe Trp Phe Val Val Gly Gly Pro Trp
 145 150 155 160
 Gly Pro Val Leu Leu Met Gly Tyr Ala Phe Leu Arg Ala Trp Gln Thr
 165 170 175
 Trp Leu Ala Arg Tyr Leu Thr Pro His Glu Arg Leu Gln Ser Gly Ile
 180 185 190
 Asp Ala Ile Leu His Val Leu Asp Trp Leu Pro Val Arg Leu Val Gly
 195 200 205
 Val Val Tyr Ala Leu Ile Gly His Gly Glu Lys Ala Leu Pro Ala Trp
 210 215 220
 Phe Val Ser Leu Ala Asp Arg His Thr Ser Gln Tyr Gln Val Leu Thr
 225 230 235 240
 Arg Leu Ala Gln Phe Ser Leu Ala Arg Glu Pro His Thr Asp Lys Val
 245 250 255
 Ala Thr Pro Lys Ala Ala Val Ser Met Ala Lys Lys Thr Ser Phe Val
 260 265 270
 Val Val Val Ile Val Ala Leu Leu Thr Ile Tyr Gly Thr Leu Val
 275 280 285

<210> 9652

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 9652

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 20 25 30
 Ile Leu Glu Gly Thr Leu Arg Pro Gly Glu Lys Leu Pro Pro Glu Arg
 35 40 45
 Glu Leu Ala Lys Gln Phe Asp Val Ser Arg Pro Ser Leu Arg Glu Ala
 50 55 60
 Ile Gln Arg Leu Glu Ala Lys Gly Leu Leu Leu Arg Arg Gln Gly Gly
 65 70 75 80
 Gly Thr Phe Val Gln Asn Ser Leu Trp Gln Ser Phe Ser Asp Pro Leu
 85 90 95
 Val Glu Leu Leu Ser Asp His Pro Glu Ser Gln Phe Asp Leu Leu Glu
 100 105 110
 Thr Arg His Ala Leu Glu Gly Ile Ala Ala Tyr Tyr Ala Ala Leu Arg
 115 120 125
 Ser Thr Asp Glu Asp Arg Val Arg Ile Arg Glu Leu His Gln Ala Ile
 130 135 140
 Glu Arg Ala Gln Gln Ser Gly Asp Leu Asp Ala Glu Ser Ser Ala Val
 145 150 155 160
 Val Gln Tyr Gln Ile Ala Val Thr Glu Ala Ala His Asn Val Val Leu
 165 170 175
 Leu His Leu Leu Arg Cys Met Glu Pro Met Leu Ala Gln Asn Val Arg
 180 185 190
 Gln Asn Phe Glu Leu Leu Tyr Ala Arg Arg Glu Met Leu Pro Leu Val
 195 200 205
 Ser Asn His Arg Thr Arg Val Phe Glu Ala Ile Met Ala Gly Glu Pro
 210 215 220
 Glu Gln Ala Arg Glu Ala Ser His Arg His Leu Ala Phe Ile Glu Glu
 225 230 235 240
 Ile Leu Leu Asp Arg Ser Arg Glu Gln Ser Arg Arg Glu Arg Ser Leu
 245 250 255
 Arg Arg Ile Gln Gln Arg Lys Asp
 260 265

<210> 9653
 <211> 893
 <212> PRT
 <213> Enterobacter cloacae

<400> 9653

Ile	Arg	Asn	Thr	Pro	Met	Ser	Glu	Arg	Leu	Gln	Asn	Asp	Val	Asp	Pro
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Ile	Glu	Thr	Arg	Asp	Trp	Leu	Gln	Ala	Ile	Glu	Ser	Val	Ile	Arg	Glu
			20					25					30		
Glu	Gly	Val	Glu	Arg	Ala	Gln	Tyr	Leu	Ile	Asp	Gln	Leu	Leu	Ser	Glu
		35					40					45			
Ala	Arg	Lys	Gly	Gly	Val	Lys	Val	Ala	Ser	Gly	Ala	Gly	Ala	Ser	Asn
		50				55					60				
Tyr	Val	Asn	Thr	Ile	Ala	Val	Glu	Asp	Glu	Pro	Glu	Tyr	Pro	Gly	Asn
65					70					75					80
Leu	Asp	Leu	Glu	Arg	Arg	Ile	Arg	Ser	Ala	Ile	Arg	Trp	Asn	Ala	Ile
				85					90					95	
Met	Thr	Val	Leu	Arg	Ala	Ser	Lys	Lys	Asp	Leu	Glu	Leu	Gly	Gly	His
			100					105					110		
Met	Ala	Ser	Phe	Gln	Ser	Ser	Ala	Thr	Ile	Tyr	Glu	Val	Cys	Phe	Asn
		115					120					125			
His	Phe	Phe	Arg	Ala	Ala	Asn	Glu	Lys	Asp	Gly	Gly	Asp	Leu	Val	Tyr
		130				135					140				
Phe	Gln	Gly	His	Ile	Ser	Pro	Gly	Ile	Tyr	Ala	Arg	Ala	Phe	Leu	Glu
145					150					155					160
Gly	Arg	Leu	Thr	Glu	Gln	Met	Asn	Asn	Phe	Arg	Gln	Glu	Val	His	
				165				170					175		
Gly	Lys	Gly	Leu	Ser	Ser	Tyr	Pro	His	Pro	Lys	Leu	Met	Pro	Glu	Phe
			180					185					190		
Trp	Gln	Phe	Pro	Thr	Val	Ser	Met	Gly	Leu	Gly	Pro	Ile	Gly	Ala	Ile
		195					200					205			
Tyr	Gln	Ala	Lys	Phe	Leu	Lys	Tyr	Leu	Glu	His	Arg	Gly	Leu	Lys	Asp
		210				215					220				
Thr	Ser	Glu	Gln	Thr	Val	Tyr	Ala	Phe	Leu	Gly	Asp	Gly	Glu	Met	Asp
225					230					235					240
Glu	Pro	Glu	Ser	Lys	Gly	Ala	Ile	Thr	Ile	Ala	Thr	Arg	Glu	Lys	Leu
				245					250					255	
Asp	Asn	Leu	Cys	Phe	Ile	Ile	Asn	Cys	Asn	Leu	Gln	Arg	Leu	Asp	Gly
			260					265					270		
Pro	Val	Thr	Gly	Asn	Gly	Lys	Ile	Ile	Asn	Glu	Leu	Glu	Gly	Ile	Phe
		275					280					285			
Ala	Gly	Ala	Gly	Trp	Asn	Val	Ile	Lys	Val	Met	Trp	Gly	Gly	Arg	Trp
		290				295					300				
Asp	Glu	Leu	Leu	Arg	Lys	Asp	Thr	Ser	Gly	Lys	Leu	Ile	Gln	Leu	Met
305					310					315					320
Asn	Glu	Thr	Val	Asp	Gly	Asp	Tyr	Gln	Thr	Phe	Lys	Ser	Lys	Asp	Gly
				325					330					335	
Ala	Tyr	Val	Arg	Glu	His	Phe	Phe	Gly	Lys	Tyr	Pro	Glu	Thr	Ala	Ala
			340					345					350		
Leu	Val	Ala	Asp	Trp	Thr	Asp	Glu	Gln	Ile	Trp	Ala	Leu	Asn	Arg	Gly
		355					360					365			
Gly	His	Asp	Pro	Lys	Lys	Val	Tyr	Ala	Ala	Leu	Lys	Lys	Ala	Arg	Glu
		370				375					380				
Thr	Lys	Gly	Lys	Ala	Thr	Val	Ile	Leu	Ala	His	Thr	Ile	Lys	Gly	Tyr
385					390					395					400
Gly	Met	Gly	Asp	Thr	Ala	Glu	Gly	Lys	Asn	Ile	Ala	His	Gln	Val	Lys
				405					410					415	
Lys	Met	Asn	Met	Asp	Gly	Val	Arg	Tyr	Ile	Arg	Asp	Arg	Phe	Asn	Val
			420					425					430		

Pro	Val	Thr	Asp	Glu	Gln	Val	Glu	Lys	Leu	Ser	Tyr	Ile	Thr	Phe	Pro
		435					440					445			
Glu	Gly	Ser	Glu	Glu	His	Lys	Tyr	Leu	His	Glu	Arg	Arg	Gln	Ala	Leu
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Lys	Gly	Tyr	Leu	Pro	Ala	Arg	Gln	Pro	Asn	Phe	Thr	Glu	Lys	Leu	Glu
465					470					475					480
Leu	Pro	Ala	Leu	Glu	Asp	Phe	Ser	Gln	Leu	Leu	Glu	Glu	Gln	Asn	Lys
				485					490					495	
Glu	Ile	Ser	Thr	Thr	Ile	Ala	Phe	Val	Arg	Ala	Leu	Asn	Val	Met	Leu
			500					505					510		
Lys	Asn	Lys	Ser	Ile	Lys	Asp	Arg	Leu	Val	Pro	Ile	Ile	Ala	Asp	Glu
		515					520					525			
Ala	Arg	Thr	Phe	Gly	Met	Glu	Gly	Leu	Phe	Arg	Gln	Ile	Gly	Ile	Tyr
	530					535					540				
Ser	Pro	Asn	Gly	Gln	Gln	Tyr	Thr	Pro	Gln	Asp	Arg	Glu	Gln	Val	Ala
545					550					555					560
Tyr	Tyr	Lys	Glu	Asp	Glu	Lys	Gly	Gln	Ile	Leu	Gln	Glu	Gly	Ile	Asn
				565					570					575	
Glu	Leu	Gly	Ala	Gly	Ala	Ser	Trp	Leu	Ala	Ala	Ala	Thr	Ser	Tyr	Ser
			580					585					590		
Thr	Asn	Asn	Leu	Pro	Met	Ile	Pro	Phe	Tyr	Ile	Tyr	Tyr	Ser	Met	Phe
		595					600					605			
Gly	Phe	Gln	Arg	Ile	Gly	Asp	Leu	Cys	Trp	Gln	Ala	Gly	Asp	Gln	Gln
	610					615					620				
Ala	Arg	Gly	Phe	Leu	Ile	Gly	Gly	Thr	Ser	Gly	Arg	Thr	Thr	Leu	Asn
625					630					635					640
Gly	Glu	Gly	Leu	Gln	His	Glu	Asp	Gly	His	Ser	His	Ile	Gln	Ser	Leu
				645					650					655	
Thr	Ile	Pro	Asn	Cys	Ile	Ser	Tyr	Asp	Pro	Ser	Tyr	Ala	Tyr	Glu	Val
			660					665					670		
Ala	Val	Ile	Met	His	Asp	Gly	Leu	Gln	Arg	Met	Tyr	Gly	Glu	Ala	Gln
		675					680					685			
Glu	Asn	Ile	Tyr	Tyr	Tyr	Ile	Thr	Thr	Leu	Asn	Glu	Asn	Tyr	His	Met
	690					695					700				
Pro	Ala	Met	Pro	Ala	Gly	Ala	Glu	Glu	Gly	Ile	Arg	Lys	Gly	Ile	Tyr
705					710					715					720
Lys	Leu	Glu	Thr	Ile	Glu	Gly	Ser	Lys	Gly	Lys	Val	Gln	Leu	Leu	Gly
				725					730					735	
Ser	Gly	Ser	Ile	Leu	Arg	His	Val	Arg	Glu	Ala	Ala	Gln	Ile	Leu	Ala
			740					745					750		
Lys	Asp	Tyr	Gly	Val	Gly	Ser	Asp	Val	Tyr	Ser	Val	Thr	Ser	Phe	Thr
	755						760					765			
Glu	Leu	Ala	Arg	Asp	Gly	Gln	Asp	Cys	Glu	Arg	Trp	Asn	Met	Leu	His
	770					775					780				
Pro	Met	Glu	Thr	Pro	Arg	Val	Pro	Tyr	Ile	Ala	Gln	Val	Met	Asn	Asp
785					790					795					800
Ala	Pro	Ala	Val	Ala	Ser	Thr	Asp	Tyr	Met	Lys	Leu	Phe	Ala	Glu	Gln
				805						810				815	
Val	Arg	Thr	Tyr	Val	Pro	Ala	Asp	Asp	Tyr	Arg	Val	Leu	Gly	Thr	Asp
			820					825					830		
Gly	Phe	Gly	Arg	Ser	Asp	Ser	Arg	Glu	Asn	Leu	Arg	His	His	Phe	Glu
		835					840					845			
Val	Asp	Ala	Ser	Tyr	Val	Val	Val	Ala	Ala	Leu	Gly	Glu	Leu	Ala	Lys
	850					855					860				
Arg	Gly	Glu	Ile	Asp	Lys	Lys	Val	Val	Ala	Asp	Ala	Ile	Thr	Lys	Phe
865					870					875					880
Asn	Ile	Asp	Ala	Asp	Lys	Val	Asn	Pro	Arg	Leu	Ala				
				885					890						

<210> 9654

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 9654

Glu	Val	Met	Met	Ser	Thr	Glu	Ile	Lys	Thr	Gln	Val	Val	Val	Leu	Gly
1				5					10					15	
Ala	Gly	Pro	Ala	Gly	Tyr	Ser	Ala	Ala	Phe	Arg	Ala	Ala	Asp	Leu	Gly
			20					25					30		
Leu	Glu	Thr	Val	Ile	Val	Glu	Arg	Tyr	Ser	Thr	Leu	Gly	Gly	Val	Cys
		35					40					45			
Leu	Asn	Val	Gly	Cys	Ile	Pro	Ser	Lys	Ala	Leu	Leu	His	Val	Ala	Lys
	50					55					60				
Val	Ile	Glu	Glu	Ala	Lys	Ala	Leu	Ala	Glu	His	Gly	Ile	Val	Phe	Gly
65					70					75					80
Glu	Pro	Lys	Thr	Asp	Ile	Asp	Lys	Ile	Arg	Thr	Trp	Lys	Glu	Lys	Val
				85					90					95	
Ile	Thr	Gln	Leu	Thr	Gly	Gly	Leu	Ala	Gly	Met	Ala	Lys	Gly	Arg	Lys
			100					105					110		
Val	Lys	Val	Val	Asn	Gly	Leu	Gly	Lys	Phe	Thr	Gly	Ala	Asn	Thr	Leu
		115					120					125			
Glu	Val	Glu	Gly	Glu	Asn	Gly	Lys	Thr	Val	Ile	Asn	Phe	Asp	Asn	Ala
	130					135					140				
Ile	Ile	Ala	Ala	Gly	Ser	Arg	Pro	Ile	Glu	Leu	Pro	Phe	Ile	Pro	His
145					150					155					160
Glu	Asp	Pro	Arg	Val	Trp	Asp	Ser	Thr	Asp	Ala	Leu	Glu	Leu	Lys	Thr
				165					170					175	
Val	Pro	Lys	Arg	Leu	Leu	Val	Met	Gly	Gly	Gly	Ile	Ile	Gly	Leu	Glu
			180					185					190		
Met	Gly	Thr	Val	Tyr	His	Ala	Leu	Gly	Ser	Glu	Ile	Asp	Val	Val	Glu
		195					200					205			
Met	Phe	Asp	Gln	Val	Ile	Pro	Ala	Ala	Asp	Lys	Asp	Ile	Val	Lys	Val
	210					215					220				
Phe	Thr	Lys	Arg	Ile	Ser	Lys	Lys	Phe	Asn	Leu	Met	Leu	Glu	Thr	Lys
225					230					235					240
Val	Thr	Ala	Val	Glu	Ala	Lys	Glu	Asp	Gly	Ile	Tyr	Val	Ser	Met	Glu
				245					250					255	
Gly	Lys	Lys	Ala	Pro	Ser	Glu	Pro	Gln	Arg	Tyr	Asp	Ala	Val	Leu	Val
			260					265					270		
Ala	Ile	Gly	Arg	Val	Pro	Asn	Gly	Lys	Asn	Leu	Asp	Ala	Gly	Lys	Ala
		275					280					285			
Gly	Val	Glu	Val	Asp	Asp	Arg	Gly	Phe	Ile	Arg	Val	Asp	Lys	Gln	Leu
	290					295					300				
Arg	Thr	Asn	Val	Pro	His	Ile	Phe	Ala	Ile	Gly	Asp	Ile	Val	Gly	Gln
305					310					315					320
Pro	Met	Leu	Ala	His	Lys	Gly	Val	His	Glu	Gly	His	Val	Ala	Ala	Glu
				325					330					335	
Val	Ile	Ala	Gly	Met	Lys	His	Tyr	Phe	Asp	Pro	Lys	Val	Ile	Pro	Ser
		340						345					350		
Ile	Ala	Tyr	Thr	Glu	Pro	Glu	Val	Ala	Trp	Val	Gly	Leu	Thr	Glu	Lys
		355					360					365			
Glu	Ala	Lys	Glu	Lys	Gly	Ile	Ser	Tyr	Glu	Thr	Ala	Thr	Phe	Pro	Trp
	370					375					380				
Ala	Ala	Ser	Gly	Arg	Ala	Ile	Ala	Ser	Asp	Cys	Ala	Asp	Gly	Met	Thr
385					390					395					400
Lys	Leu	Ile	Phe	Asp	Lys	Glu	Thr	His	Arg	Val	Ile	Gly	Gly	Ala	Ile
				405					410					415	
Val	Gly	Thr	Asn	Gly	Gly	Glu	Leu	Leu	Gly	Glu	Ile	Gly	Leu	Ala	Ile
			420					425					430		
Glu	Met	Gly	Cys	Asp	Ala	Glu	Asp	Ile	Ala	Leu	Thr	Ile	His	Ala	His
		435					440					445			
Pro	Thr	Leu	His	Glu	Ser	Val	Gly	Leu	Ala	Ala	Glu	Val	Phe	Glu	Gly

450 455 460
 Ser Ile Thr Asp Leu Pro Asn Ala Lys Ala Lys Lys Lys
 465 470 475

<210> 9655
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 9655
 Asn His Ala Ala Gly Gly His Phe Asn Ile Arg Ala Glu Gly Thr Gln
 1 5 10 15
 Pro Ala Phe Arg Val Ala Phe Arg Val Gly Val His Ala Asp Val Ala
 20 25 30
 Phe Ile Gln Val Ser Asn His His Phe Arg Gln Arg Ala Gly Val Phe
 35 40 45
 Gly Phe Val Asp Lys Leu Trp Val Asn Arg Leu Phe Thr His Gln Asn
 50 55 60
 Gly Asp Ala Arg Thr Leu Arg Leu Ile Ile Leu Ala Arg Asp Ile Glu
 65 70 75 80
 Asp Val Arg Ala Asp Asn Arg Ala Gly Leu Cys Gln Asp Leu Gly Gln
 85 90 95
 Thr Val Gly Val Val Glu Phe Ile Asp Ile Gly Asp Val Thr Ile Ala
 100 105 110
 Leu Phe Cys Cys Phe Gly Val Ala Asp Ile Val Asn Thr Lys Thr Gln
 115 120 125
 Ala Phe Gly Gln Ile Val Lys Ala Met Gln Phe Lys Leu Phe Gln Leu
 130 135 140
 Val His Leu Leu
 145

<210> 9656
 <211> 588
 <212> PRT
 <213> Enterobacter cloacae

<400> 9656
 Leu Phe Ala His Ile Ala Ile Arg Leu Ala Asn Lys Ile Val Leu Lys
 1 5 10 15
 Asn Val Phe Ile Ala Phe Thr Thr Ala Ser Arg Lys Ile Asn Val Ser
 20 25 30
 Ile Leu Asp Ala Arg Pro Thr Ile Phe Ile Ile Ala Ala Val Leu Asp
 35 40 45
 Leu Pro Val Arg Gly Gly Phe Met Leu Lys Arg Ser Pro Ala Gly Asn
 50 55 60
 Lys Glu Met His Met Gln Arg Arg Asp Phe Leu Lys Phe Ser Ala Ala
 65 70 75 80
 Leu Gly Val Ala Ser Ala Ile Pro Leu Trp Ser Arg Ala Val Phe Ala
 85 90 95
 Ala Asp Arg Pro Ala Leu Pro Ile Pro Glu Leu Leu Ala Pro Asp Ala
 100 105 110
 Arg Ser Arg Ile Gln Leu Val Val Gln Ala Gly Lys Thr Thr Phe Gly
 115 120 125
 Gln His Ala Ala Thr Thr Trp Gly Tyr Asn Gly Asn Leu Leu Gly Pro
 130 135 140
 Ala Leu Gln Leu Arg Lys Gly Lys Ala Val Thr Val Asp Ile His Asn
 145 150 155 160
 Thr Leu Ala Glu Glu Thr Thr Leu His Trp His Gly Leu Glu Val Pro
 165 170 175
 Gly Glu Val Asp Gly Gly Pro Gln Gly Val Ile Arg Pro Gly Gly Lys
 180 185 190

Arg	Ser	Val	Thr	Phe	Thr	Pro	Glu	Gln	Arg	Ala	Ala	Thr	Cys	Trp	Phe
		195					200					205			
His	Pro	His	Gln	His	Gly	Lys	Thr	Gly	His	Gln	Val	Ala	Met	Gly	Leu
	210					215					220				
Ala	Gly	Leu	Val	Leu	Ile	Glu	Asp	Asp	Glu	Ser	Arg	Leu	Leu	Arg	Leu
225					230					235					240
Pro	Lys	Gln	Trp	Gly	Ile	Asp	Asp	Val	Pro	Val	Ile	Val	Gln	Asp	Lys
				245					250					255	
Lys	Phe	Ser	Ala	Asp	Gly	Gln	Ile	Asp	Tyr	Gln	Leu	Asp	Val	Met	Ser
			260					265					270		
Ala	Ala	Val	Gly	Trp	Phe	Gly	Asp	Thr	Leu	Leu	Thr	Asn	Gly	Ala	Ile
		275					280					285			
Tyr	Pro	Gln	His	Ala	Ala	Pro	Lys	Gly	Trp	Leu	Arg	Leu	Arg	Leu	Leu
	290					295					300				
Asn	Gly	Cys	Asn	Ala	Arg	Ser	Leu	Asn	Phe	Ala	Thr	Ser	Asp	Lys	Arg
305					310					315					320
Pro	Leu	Tyr	Val	Val	Ala	Ser	Asp	Gly	Gly	Leu	Leu	Pro	Glu	Pro	Val
				325						330				335	
Lys	Val	Ser	Glu	Leu	Pro	Met	Leu	Met	Gly	Glu	Arg	Phe	Glu	Val	Leu
			340					345					350		
Val	Asp	Ile	Ser	Asp	Gly	Lys	Ala	Phe	Asp	Leu	Val	Thr	Leu	Pro	Val
		355					360					365			
Ser	Gln	Met	Gly	Met	Ala	Val	Ala	Pro	Phe	Asp	Lys	Pro	His	Pro	Val
		370				375					380				
Leu	Arg	Ile	Gln	Pro	Leu	Gln	Ile	Thr	Ala	Ser	Gly	Thr	Leu	Pro	Glu
385					390					395					400
Thr	Leu	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Ser	Leu	Asp	Gly	Leu	Thr	Gln
				405					410					415	
Arg	Lys	Leu	Gln	Leu	Ser	Met	Asp	Pro	Met	Leu	Asp	Met	Met	Gly	Met
			420					425					430		
Gln	Ala	Leu	Met	Lys	Lys	Tyr	Gly	Asn	Gln	Ala	Met	Ala	Gly	Met	His
		435					440				445				
His	Gly	Gln	Met	Met	Gly	His	Met	Asn	Met	Asp	His	Gly	Asn	Met	Gly
	450					455					460				
Gly	Met	Asn	His	Gly	Gly	His	Gly	Phe	Asp	Phe	His	Asn	Ala	Asn	Arg
465					470					475					480
Ile	Asn	Gly	Lys	Ala	Phe	Asp	Met	Asn	Thr	Pro	Met	Phe	Ala	Ala	Thr
				485					490					495	
Lys	Gly	Gln	Phe	Glu	Arg	Trp	Met	Ile	Ser	Gly	Glu	Gly	Asp	Met	Met
			500					505					510		
Leu	His	Pro	Phe	His	Ile	His	Gly	Thr	Gln	Phe	Arg	Ile	Leu	Ser	Glu
		515					520					525			
Asn	Gly	Lys	Ala	Pro	Glu	Pro	His	Arg	Ala	Gly	Trp	Lys	Asp	Thr	Val
	530					535					540				
Arg	Val	Glu	Gly	Gly	Val	Ser	Glu	Val	Leu	Val	Lys	Phe	Asp	His	Glu
545					550					555					560
Ala	Pro	Lys	Glu	Phe	Ala	Tyr	Met	Ala	His	Cys	His	Leu	Leu	Glu	His
				565					570					575	
Glu	Asp	Thr	Gly	Met	Met	Leu	Gly	Phe	Thr	Val					
			580					585							

<210> 9657

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 9657

Gln	Ser	Lys	Pro	Thr	Gly	Arg	Ala	Val	Cys	Leu	Ser	Gly	Ala	Arg	Gln
1				5					10					15	
Thr	Arg	Arg	Gln	Gly	Met	Thr	His	Leu	Tyr	Trp	Val	Ala	Leu	Lys	Ser
			20					25					30		

Ile Trp Ala Lys Glu Ile Asn Arg Phe Met Arg Ile Trp Val Gln Thr
 35 40 45
 Leu Val Pro Pro Val Ile Thr Met Thr Leu Tyr Phe Ile Ile Phe Gly
 50 55 60
 Asn Leu Ile Gly Ser Arg Ile Gly Glu Met His Gly Phe Thr Tyr Met
 65 70 75 80
 Gln Phe Ile Val Pro Gly Leu Ile Met Met Ala Val Ile Thr Asn Ala
 85 90 95
 Tyr Ala Asn Val Ala Ser Ser Phe Phe Ser Ala Lys Phe Gln Arg Asn
 100 105 110
 Ile Glu Glu Leu Leu Val Ala Pro Val Pro Thr His Val Ile Ile Ala
 115 120 125
 Gly Tyr Val Gly Gly Gly Val Ala Arg Gly Leu Cys Val Gly Ile Leu
 130 135 140
 Val Thr Ala Ile Ser Leu Phe Phe Val Pro Phe Gln Val His Ser Trp
 145 150 155 160
 Leu Phe Val Ala Leu Thr Leu Leu Leu Thr Ala Ile Leu Phe Ser Leu
 165 170 175
 Ala Gly Leu Leu Asn Ala Val Phe Ala Lys Thr Phe Asp Asp Ile Ser
 180 185 190
 Leu Ile Pro Thr Phe Val Leu Thr Pro Leu Thr Tyr Leu Gly Gly Val
 195 200 205
 Phe Tyr Ser Leu Thr Leu Leu Pro Pro Phe Trp Gln Ala Leu Ser His
 210 215 220
 Leu Asn Pro Ile Val Tyr Met Ile Ser Gly Phe Arg Phe Gly Phe Leu
 225 230 235 240
 Gly Ile Thr Asp Val Pro Leu Phe Thr Thr Val Val Val Leu Val Val
 245 250 255
 Phe Ile Ile Ala Phe Tyr Leu Leu Cys Trp Tyr Leu Ile Gln Arg Gly
 260 265 270
 Arg Gly Leu Arg Ser
 275

<210> 9658

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 9658

Asp Asp Met Lys Gln Ser Ile Val Lys Trp Leu Phe Glu Leu Asn Ala
 1 5 10 15
 Lys Gln Arg Glu Val Leu Ala Arg Arg Phe Gly Leu Leu Gly Tyr Glu
 20 25 30
 Ala Ala Thr Leu Glu Asp Val Gly Arg Glu Ile Gly Leu Thr Arg Glu
 35 40 45
 Arg Val Arg Gln Ile Gln Val Glu Gly Leu Arg Arg Leu Arg Glu Ile
 50 55 60
 Leu Gln Gly Gln Gly Leu Asn Ile Glu Ala Leu Phe Arg Glu
 65 70 75

<210> 9659

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 9659

Met Arg Leu Ile Val Gly Met Thr Gly Ala Thr Gly Ala Pro Leu Gly
 1 5 10 15
 Val Ala Leu Leu Gln Ala Leu Arg Glu Met Pro Glu Val Glu Thr His
 20 25 30
 Leu Val Met Ser Lys Trp Ala Lys Thr Thr Ile Glu Leu Glu Thr Pro

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<210> 9660
<211> 119
<212> PRT
<213> Enterobacter cloacae
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<210> 9661
<211> 208
<212> PRT
<213> Enterobacter cloacae
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<400> 9661																
Phe	Ala	Leu	Arg	Arg	Asp	Asp	Val	Asn	Ala	Val	Glu	Met	Thr	Arg	Arg	
1				5					10					15		
His	Arg	Gly	Gly	Asp	Ser	Thr	Ser	Leu	Val	Lys	Ser	Tyr	Leu	Asn	Gln	
			20					25					30			
Gln	Ile	Lys	Asn	Trp	His	Glu	Asn	Cys	Leu	Thr	Ala	Ala	Asn	Ser	Ile	
		35					40					45				
Asn	Arg	Ile	Pro	Phe	Met	Thr	Ile	Trp	Glu	Ile	Ser	Glu	Lys	Ala	Asp	
	50					55					60					
Tyr	Ile	Ala	Gln	Arg	His	Gln	Gln	Leu	Gln	Asp	Gln	Trp	His	Leu	Tyr	
65				70					75					80		

Cys Asn Ser Leu Ile Gln Gly Ile Thr Leu Ser Lys Ala Arg Leu His
 85 90 95
 His Ala Met Ser Cys Ala Ala Gln Gly Asp Met Arg Phe Val Leu Phe
 100 105 110
 Gly His Phe Thr Ile Phe Val Thr Leu Ala Glu Ser Phe Asn Ser His
 115 120 125
 Thr Ile Glu Tyr Tyr Val Glu Thr Lys Glu Gly Glu Lys Gln Cys Ile
 130 135 140
 Ala Lys Ala Gln Leu Met Ala Asp Gly Met Val Asp Gly His Val Ser
 145 150 155 160
 Asn Arg Asp Arg Gln Gln Val Leu Glu His Tyr Leu Glu Lys Ile Ala
 165 170 175
 Pro Val Tyr Asn Gly Leu Tyr Ala Ala Val Glu His Asp Gln Ser Ile
 180 185 190
 Asn Leu Lys Gln Leu Ile Asp Gly Lys Ser Ser Ala Asn Val Ala
 195 200 205

<210> 9662

<211> 609

<212> PRT

<213> Enterobacter cloacae

<400> 9662

Arg Gly Gly Glu Met Asn Ala Ile Val Met Met Thr Ser Gly Val Ala
 1 5 10 15
 Trp Phe Ala Ala Ala Ala Val Leu Ala Leu Leu Leu Ala Phe His Lys
 20 25 30
 Thr Leu Ser Gly Val Ile Ala Gly Ile Gly Gly Ala Val Gly Ser Leu
 35 40 45
 Met Thr Leu Ala Ala Gly Gly Val Val Leu Ile Asp Gly Gln Ser Val
 50 55 60
 Asp Thr Leu Ile Pro Leu Ile His His Ala Val Glu Leu Thr Pro Leu
 65 70 75 80
 Asn Ala Ile Trp Leu Ile Thr Phe Gly Leu Cys Gly Leu Phe Ile Ser
 85 90 95
 Leu Phe Asn Ile Asp Trp His Arg His Gln His Thr Lys Ala Asn Gly
 100 105 110
 Leu Leu Val Asn Leu Leu Met Ala Ala Val Cys Thr Val Val Ala
 115 120 125
 Ser Asn Leu Gly Ala Leu Val Met Ala Glu Ile Met Ala Leu Cys
 130 135 140
 Gly Val Phe Leu Thr Gly Cys Ser Ala Ser Gly Lys Leu Trp Phe Ala
 145 150 155 160
 Leu Gly Arg Leu Gly Thr Leu Leu Leu Ala Leu Ala Cys Trp Leu Val
 165 170 175
 Trp Gln Arg Phe Gly Thr Leu Asp Phe Ala Ala Leu Asn Gly Gln Pro
 180 185 190
 Leu Gly Asn Asp Val Trp Leu Leu Gly Val Val Gly Phe Gly Leu Leu
 195 200 205
 Ala Gly Ile Ile Pro Leu His Gly Trp Val Pro Gln Ala His Ala Asn
 210 215 220
 Ala Ser Ala Pro Ala Ala Ala Leu Phe Ser Thr Val Val Met Lys Val
 225 230 235 240
 Gly Leu Phe Gly Ile Leu Thr Ile Thr Leu Thr Gly Asp Gln Pro Pro
 245 250 255
 Leu Trp Trp Gly Val Ala Leu Leu Ile Ala Gly Met Ile Thr Ala Phe
 260 265 270
 Val Gly Gly Leu Tyr Ala Leu Met Glu His Asn Ile Gln Arg Leu Leu
 275 280 285
 Ala Tyr His Thr Leu Glu Asn Ile Gly Ile Ile Leu Leu Gly Met Gly
 290 295 300

Ala Gly Val Thr Gly Leu Ala Leu Asn Gln Pro Ala Leu Ile Ala Ala
 305 310 315 320
 Gly Phe Ile Gly Gly Leu Tyr His Leu Ile Asn His Ser Leu Phe Lys
 325 330 335
 Ser Thr Leu Phe Leu Gly Ala Gly Ser Val Trp Phe Arg Thr Gly His
 340 345 350
 Arg Asp Ile Glu Lys Leu Gly Gly Ile Gly Lys Lys Met Pro Val Ile
 355 360 365
 Ser Leu Ala Met Leu Val Gly Leu Met Ala Met Ala Ala Leu Pro Pro
 370 375 380
 Leu Asn Gly Phe Ala Gly Glu Trp Val Ile Tyr Gln Ser Phe Phe Ala
 385 390 395 400
 Leu Gly Gln Ser Glu Ala Phe Ile Gly Arg Leu Leu Gly Pro Leu Leu
 405 410 415
 Ala Val Gly Leu Ala Ile Thr Gly Ala Leu Ala Val Met Cys Met Ala
 420 425 430
 Lys Val Tyr Gly Val Thr Phe Leu Gly Ala Pro Arg Thr Arg Glu Ala
 435 440 445
 Glu Asn Ala Cys Cys Ala Pro Val Leu Met Thr Thr Ser Val Val Ala
 450 455 460
 Leu Ala Leu Cys Cys Ile Ala Gly Gly Val Ala Ala Pro Trp Leu Leu
 465 470 475 480
 Pro Leu Leu Gly His Ala Ile Pro Leu Pro Leu Val Thr Ala His Thr
 485 490 495
 Val Val Ser Gln Pro Met Met Ala Leu Leu Leu Ile Ala Ala Pro Leu
 500 505 510
 Leu Pro Phe Val Leu Met Leu Phe Phe Arg Arg Asp Arg Leu Ala Ser
 515 520 525
 Arg Ser Arg Gly Ala Ala Trp Ala Cys Gly Tyr Glu His Glu Gln Ser
 530 535 540
 Met Val Ile Thr Ala His Gly Phe Ala Met Pro Val Lys Glu Asn Phe
 545 550 555 560
 Ala Ala Val Leu Lys Leu Arg His Trp Leu Asn Pro Val Gly Trp Val
 565 570 575
 Pro Gly Trp Gln Gly Ala Ala Val Pro Val Leu Phe Arg Arg Leu Ala
 580 585 590
 Leu Ile Glu Leu Ala Val Leu Val Val Ile Val Ile Ser Arg Gly Ala
 595 600 605

<210> 9663

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9663

Pro His Arg Phe Asn Pro Pro Tyr Glu Arg Gly Gln Leu Met Glu Asn
 1 5 10 15
 Leu Leu Gly Pro Arg Asp Ala Asn Gly Ile Pro Val Pro Leu Thr Val
 20 25 30
 Glu Glu Ser Ile Ala Ser Met Lys Ala Ser Leu Leu Lys Lys Ile Lys
 35 40 45
 Arg Ser Ala Tyr Val Tyr Arg Val Asp Cys Gly Gly Cys Asn Gly Cys
 50 55 60
 Glu Ile Glu Ile Phe Ala Thr Leu Ser Pro Leu Phe Asp Ala Glu Arg
 65 70 75 80
 Phe Gly Ile Lys Val Val Pro Ser Pro Arg His Ala Asp Ile Leu Leu
 85 90 95
 Phe Thr Gly Ala Val Thr Arg Ala Met Arg Ser Pro Ala Leu Arg Ala
 100 105 110

Trp Gln Ser Ala Pro Asp Pro Lys Ile Cys Ile Ser Tyr Gly Ala Cys
 115 120 125
 Gly Asn Ser Gly Gly Ile Phe His Asp Leu Tyr Cys Val Trp Gly Gly
 130 135 140
 Thr Asp Lys Ile Val Pro Val Asp Val Tyr Ile Pro Gly Cys Pro Pro
 145 150 155 160
 Thr Pro Ala Ala Thr Leu Tyr Gly Phe Ala Met Ala Leu Gly Leu Leu
 165 170 175
 Glu Gln Lys Ile His Ala Arg Glu Pro Gly Glu Leu Asp Asn Gln Pro
 180 185 190
 Ala Thr Ile Leu His Pro Asp Met Val Gln Pro Leu Arg Val Lys Ile
 195 200 205
 Asp Arg Thr Ala Arg Arg Leu Ala Gly Tyr Arg Tyr Gly Arg Gln Ile
 210 215 220
 Ala Asp Asp Tyr Leu Arg Leu Leu Ser Gln Gly Asp His Gln Val Ala
 225 230 235 240
 Arg Trp Leu Glu Ala Glu Lys Asp Pro Arg Leu Asn Glu Ile Val Ala
 245 250 255
 Asn Leu Asn Asn Ile Val Asp Glu Ala Arg Ile Arg
 260 265

<210> 9664

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9664

Gly Asp Tyr Val Thr Asp Val Leu Leu Cys Val Gly Asn Ser Met Met
 1 5 10 15
 Gly Asp Asp Gly Ala Gly Pro Leu Leu Ala Glu Leu Cys Ala Ala Asn
 20 25 30
 Ser Pro Gly Asn Trp Val Val Ile Asp Gly Gly Ser Ala Pro Glu Asn
 35 40 45
 Asp Val Val Ala Ile Arg Glu Leu His Pro Asp Arg Leu Leu Ile Val
 50 55 60
 Asp Ala Thr Asp Met Gly Leu Asn Pro Gly Glu Ile Arg Leu Ile Asp
 65 70 75 80
 Pro Asp Asp Ile Ala Glu Met Phe Met Met Thr Thr His Asn Met Pro
 85 90 95
 Leu Asn Tyr Leu Val Asp Gln Ile Lys Gly Asp Val Gly Glu Val Leu
 100 105 110
 Phe Leu Gly Ile Gln Pro Asp Ile Val Gly Phe Tyr Tyr Pro Met Thr
 115 120 125
 Pro Pro Val Lys Glu Ala Val Asp Val Val Tyr Ser Arg Leu Ala Gly
 130 135 140
 Trp Val Gly Asp Gly Gly Phe Ser Pro Leu
 145 150 155

<210> 9665

<211> 371

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (371)

<400> 9665

Phe Leu Val Glu Lys Gly Thr Asp Leu Arg Trp Gly Gly Ala Asn Arg
 1 5 10 15
 Phe Leu Glu Glu Leu Gly Met Leu Tyr His Thr Gly Phe Leu Pro Asn

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<210> 9666
<211> 507
<212> PRT
<213> Enterobacter cloacae
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Pro	Val	Phe	Ser	Thr	Ser	Leu	Val	Trp	Ser	Ile	Lys	Lys	Pro	Asp	Ala
1				5					10					15	
Gly	Lys	Val	Cys	Arg	Gln	Arg	Asn	Ile	Phe	His	Arg	Arg	Ile	Lys	Met
			20					25					30		
Ala	Phe	Asp	Asp	Leu	Arg	Ser	Phe	Leu	Gln	Ala	Leu	Asp	Glu	Gln	Gly
		35					40					45			
Gln	Leu	Leu	Lys	Ile	Glu	Glu	Glu	Val	Asn	Ala	Glu	Pro	Asp	Leu	Ala
	50					55					60				
Ala	Ala	Ala	Asn	Ala	Thr	Gly	Arg	Ile	Gly	Asp	Gly	Ala	Pro	Ala	Leu

65					70					75				80
Trp	Phe	Asp	Asn	Ile	Arg	Gly	Phe	Thr	Asp	Ala	Arg	Val	Val	Met Asn
				85					90					95
Thr	Ile	Gly	Ser	Trp	Gln	Asn	His	Ala	Ile	Ser	Met	Gly	Leu	Pro Ala
			100					105					110	
Asn	Thr	Pro	Val	Lys	Lys	Gln	Ile	Asp	Glu	Phe	Ile	Arg	Arg	Trp Asp
		115					120					125		
Lys	Phe	Pro	Val	Ser	Pro	Glu	Arg	Arg	Ala	Asn	Pro	Ala	Trp	Ala Gln
		130				135					140			
Asn	Thr	Val	Asp	Gly	Glu	Asp	Ile	Asn	Leu	Phe	Asp	Ile	Leu	Pro Leu
145					150					155				160
Phe	Arg	Leu	Asn	Asp	Gly	Asp	Gly	Gly	Phe	Tyr	Leu	Asp	Lys	Ala Cys
			165						170					175
Val	Val	Ser	Arg	Asp	Pro	Leu	Asp	Pro	Asp	His	Phe	Gly	Lys	Gln Asn
			180					185					190	
Val	Gly	Ile	Tyr	Arg	Met	Glu	Val	Lys	Gly	Lys	Arg	Lys	Leu	Gly Leu
		195					200					205		
Gln	Pro	Val	Pro	Met	His	Asp	Ile	Ala	Leu	His	Leu	His	Lys	Ala Glu
		210				215					220			
Glu	Arg	Gly	Glu	Asp	Leu	Pro	Ile	Ala	Ile	Thr	Leu	Gly	Asn	Asp Pro
225					230					235				240
Ile	Ile	Thr	Leu	Met	Gly	Ala	Thr	Pro	Leu	Lys	Tyr	Asp	Gln	Ser Glu
			245						250					255
Tyr	Glu	Met	Ala	Gly	Ala	Leu	Arg	Glu	Ser	Pro	Tyr	Pro	Ile	Ala Thr
		260						265					270	
Ala	Pro	Leu	Thr	Gly	Phe	Asp	Val	Pro	Trp	Gly	Ser	Glu	Val	Ile Leu
		275					280					285		
Glu	Gly	Val	Ile	Glu	Gly	Arg	Lys	Arg	Glu	Ile	Glu	Gly	Pro	Phe Gly
		290				295					300			
Glu	Phe	Thr	Gly	His	Tyr	Ser	Gly	Gly	Arg	Asn	Met	Thr	Val	Val Arg
305					310					315				320
Ile	Asp	Lys	Val	Ser	Tyr	Arg	Thr	Lys	Pro	Ile	Phe	Glu	Ser	Leu Tyr
			325						330					335
Leu	Gly	Met	Pro	Trp	Thr	Glu	Ile	Asp	Tyr	Leu	Met	Gly	Pro	Ala Thr
		340						345					350	
Cys	Val	Pro	Leu	Tyr	Gln	Gln	Leu	Lys	Ser	Glu	Phe	Pro	Glu	Val Gln
		355					360					365		
Ala	Val	Asn	Ala	Met	Tyr	Thr	His	Gly	Leu	Leu	Ala	Ile	Ile	Ser Thr
		370				375					380			
Lys	Lys	Arg	Tyr	Gly	Gly	Phe	Ala	Arg	Ala	Val	Gly	Leu	Arg	Ala Met
385					390					395				400
Thr	Thr	Pro	His	Gly	Leu	Gly	Tyr	Val	Lys	Met	Val	Ile	Met	Val Asp
			405						410					415
Glu	Asp	Val	Asp	Pro	Phe	Asn	Leu	Pro	Gln	Val	Met	Trp	Ala	Leu Ser
			420					425					430	
Ser	Lys	Val	Asn	Pro	Ala	Gly	Asp	Leu	Val	Gln	Leu	Pro	Asn	Met Ser
		435					440					445		
Val	Leu	Glu	Leu	Asp	Pro	Gly	Ser	Ser	Pro	Ala	Gly	Ile	Thr	Asp Lys
		450				455					460			
Leu	Ile	Ile	Asp	Ala	Thr	Thr	Pro	Val	Ala	Pro	Asp	Asn	Arg	Gly His
465					470					475				480
Tyr	Ser	Gln	Pro	Val	Gln	Asp	Leu	Pro	Glu	Thr	Lys	Ala	Trp	Ala Glu
			485						490					495
Lys	Leu	Thr	Ala	Met	Leu	Ala	Ala	Arg	Gln					
			500					505						

<210> 9667

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9667

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Arg Thr Ser Leu Met Thr Lys Lys Ala Thr Val Leu Leu Phe Leu Val
1      5      10
Phe Phe Leu Ala Gly Ala Leu Ala Ala Trp Leu Tyr Arg Leu His Gln
20      25      30
Gln Asn Ser Glu Asn Thr Glu Ala Cys Ser Ala Ser Ile Val Val Tyr
35      40      45
His Glu Asp Ile Arg Ala Asn Leu Thr Met Asp Phe Met Tyr Thr Met
50      55      60
Lys Lys Gln Thr Gly Val Ile Ala Leu Ser Gly Ala Tyr Tyr Lys Asn
65      70      75
Asp Lys Leu Ala Gly Val Ile Arg Arg Asp Val Ser Tyr Val Trp Thr
85      90      95
Glu Asn Lys Asp Ser Phe His Phe Thr Ser Val Asn Ile His Asp Ile
100     105     110
Asn Gly Gln Gln Thr Ala Pro Asn Glu Ile Met Asn Glu Ile Leu Pro
115     120     125
Asp Phe Phe Leu Tyr Pro Lys Lys Asn Leu Asn Tyr Ser Ile Thr Gln
130     135     140
Gln Gly Pro Arg Gly Phe Met Phe Ser Val Gly Lys Arg Pro Ile Phe
145     150     155
Tyr Cys Ser Arg
165

```

<210> 9668

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9668

```

Pro Ser Pro Glu Asp Asp Pro Val Asn Arg Phe Val Ile Ala Asp Ser
1      5      10
Thr Val Cys Ile Gly Cys Arg Thr Cys Glu Ala Ala Cys Ser Glu Thr
20      25      30
His Arg Leu His Gly Leu Gln Ser Met Pro Arg Leu Arg Val Met Arg
35      40      45
Asn Glu Lys Glu Ser Ala Pro Gln Leu Cys His His Cys Glu Asp Ala
50      55      60
Pro Cys Ala Gly Val Cys Pro Val Asn Ala Ile Thr Arg Val Asp Gly
65      70      75
Ala Val Gln Leu Asn Glu Ser Leu Cys Val Ser Cys Lys Leu Cys Gly
85      90      95
Ile Ala Cys Pro Phe Gly Ala Ile Glu Phe Ser Gly Ser Arg Pro Leu
100     105     110
His Ile Pro Ala Asn Ala Asn Thr Pro Lys Ala Pro Pro Ala Pro Pro
115     120     125
Ala Pro Ala Arg Val Ser Thr Leu Leu Asp Trp Val Pro Gly Ile Arg
130     135     140
Ala Val Ala Val Lys Cys Asp Leu Cys Ser Phe Asp Glu Gln Gly Pro
145     150     155
Ala Cys Val Arg Thr Cys Pro Thr Arg Ala Leu Val Leu Val Asn Ile
165     170     175
Arg Asp Ile Ala Arg Thr Ser Lys Arg Lys Arg Glu Leu Thr Ile Asn
180     185     190
Thr Asp Val Gly Asp Leu Ser Leu Leu Arg Ala Leu Asn Glu Gly Ala
195     200     205
Lys
210

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<210> 9669

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 9669

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Leu Ser Phe His Glu Glu Pro Asp Met Ser Leu Leu Leu Ala Ile Leu
1      5      10      15
Gln Ala Leu Val Leu Phe Ala Ala Ala Pro Leu Leu Ser Gly Ile Thr
20      25      30
Arg Val Ala Arg Ala Arg Leu His Asn Arg Arg Gly Pro Gly Val Leu
35      40      45
Gln Glu Tyr Arg Asp Leu Phe Lys Leu Leu Ser Arg Gln Ser Val Ala
50      55      60
Pro Asp Ala Ala Gly Trp Val Phe Arg Leu Thr Pro Phe Val Met Val
65      70      75      80
Gly Val Met Leu Thr Ile Ala Thr Ala Leu Pro Val Val Thr Val Ala
85      90      95
Ser Pro Leu Pro Val Leu Gly Asp Leu Ile Thr Leu Ile Tyr Leu Phe
100      105      110
Ala Ile Ala Arg Phe Phe Phe Ala Ile Ala Gly Leu Asp Thr Gly Ser
115      120      125
Pro Phe Thr Gly Ile Gly Ala Ser Arg Glu Ala Met Leu Gly Val Leu
130      135      140
Val Glu Pro Ile Leu Leu Leu Gly Leu Trp Val Ala Ala Gln Val Ala
145      150      155      160
Gly Ser Thr His Ile Ser Phe Ile Thr Asp Thr Val Tyr His Trp Pro
165      170      175
Val Ser Arg Ser Leu Pro Leu Val Leu Ala Leu Cys Ala Cys Ala Phe
180      185      190
Ala Thr Phe Ile Glu Met Gly Lys Leu Pro Phe Asp Leu Ala Glu Ala
195      200      205
Glu Gln Glu Leu Gln Glu Gly Pro Leu Thr Glu Tyr Ser Gly Tyr Gly
210      215      220
Phe Ala Val Leu Lys Trp Gly Ile Ser Leu Lys Gln Leu Val Val Leu
225      230      235      240
Gln Met Phe Val Gly Val Phe Phe Pro Trp Gly Gln Met Thr His Phe
245      250      255
Ser Ala Gly Gly Leu Leu Leu Ala Val Val Val Ala Val Leu Lys Leu
260      265      270
Leu Ile Gly Val Leu Val Ile Ala Leu Phe Glu Asn Ser Met Ala Arg
275      280      285
Leu Arg Phe Val Glu Thr Ser Arg Ile Thr Trp Ala Gly Phe Gly Phe
290      295      300
Ala Phe Leu Ala Phe Val Ser Leu Leu Val Ala
305      310      315

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<210> 9670

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 9670

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Leu Lys Arg Val Phe Met Ser Glu Glu Lys Lys Gly Gln Gln Tyr Leu
1      5      10      15
Ala Ala Leu His Gln Ala Phe Pro Gly Val Val Leu Glu Glu Ser Trp
20      25      30
Gln Thr Lys Asp Gln Ile Thr Val Thr Ile Lys Val Asn Tyr Leu Pro
35      40      45
Glu Val Val Glu Phe Leu Tyr Trp Gln Gln Gly Gly Trp Leu Ser Val
50      55      60
Leu Phe Gly Asn Asp Glu Arg Gln Leu Cys Gly Ser Tyr Ala Val Tyr
65      70      75      80

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Tyr Val Met Ser Met Glu Gln Gly Glu Lys Cys Trp Ile Thr Val Arg
 85 90 95
 Val Glu Val Asp Pro Asn Lys Pro Glu Tyr Pro Ser Val Thr Pro Arg
 100 105 110
 Val Pro Ala Ala Val Trp Gly Glu Arg Glu Val Arg Asp Met Tyr Gly
 115 120 125
 Leu Val Pro Val Gly Leu Pro Asp Glu Arg Arg Leu Val Leu Pro Asp
 130 135 140
 Asp Trp Pro Asp Glu Leu Tyr Pro Leu Arg Lys Asp Ser Met Asp Tyr
 145 150 155 160
 Arg Gln Arg Pro Ala Pro Thr Thr Asp Ser Glu Thr Tyr Glu Phe Ile
 165 170 175
 Asn Glu Leu Gly Ser Lys Lys Asn Asn Val Val Pro Ile Gly Pro Leu
 180 185 190
 His Val Thr Ser Asp Glu Pro Gly His Phe Arg Leu Phe Val Asp Gly
 195 200 205
 Glu Asn Ile Ile Asp Ala Asp Tyr Arg Leu Phe Tyr Val His Arg Gly
 210 215 220
 Met Glu Lys Leu Ala Glu Thr Arg Met Gly Tyr Asn Glu Val Thr Phe
 225 230 235 240
 Leu Ser Asp Arg Val Cys Gly Ile Cys Gly Phe Ala His Ser Thr Ala
 245 250 255
 Tyr Thr Thr Ser Val Glu Asn Gly Met Gly Ile Val Val Pro Glu Arg
 260 265 270
 Ala Gln Met Ile Arg Ala Ile Leu Leu Glu Val Glu Arg Leu His Ser
 275 280 285
 His Leu Leu Asn Leu Gly Leu Ala Cys His Phe Val Gly Phe Asp Ser
 290 295 300
 Gly Phe Met Gln Phe Phe Arg Val Arg Glu Ala Ser Met Lys Met Ala
 305 310 315 320
 Glu Ile Leu Thr Gly Ala Arg Lys Thr Tyr Gly Leu Asn Leu Ile Gly
 325 330 335
 Gly Ile Arg Arg Asp Leu Leu Lys Asp Asp Met Ile Gln Thr Arg Gln
 340 345 350
 Leu Ala Gln Gln Met Arg Arg Asp Val Gln Glu Leu Val Asp Met Leu
 355 360 365
 Leu Ser Thr Pro Asn Ile Glu Gln Arg Thr Val Gly Ile Gly Arg Leu
 370 375 380
 Asp Pro Glu Ile Ala Arg Asp Phe Ser Asn Val Gly Pro Met Val Arg
 385 390 395 400
 Ala Ser Gly His Ala Arg Asp Thr Arg Ala Asp His Pro Phe Val Gly
 405 410 415
 Tyr Gly Leu Leu Pro Met Thr Val His Ser Glu Gln Gly Cys Asp Val
 420 425 430
 Ile Ser Arg Leu Lys Val Arg Ile Asn Glu Val Phe Thr Ala Leu Asn
 435 440 445
 Met Ile Asp Tyr Gly Leu Asp Asn Leu Pro Gly Gly Pro Leu Met Val
 450 455 460
 Glu Gly Phe Thr Tyr Ile Pro Asn Arg Phe Ala Leu Gly Phe Ala Glu
 465 470 475 480
 Ala Pro Arg Gly Asp Asp Ile His Trp Ser Met Thr Gly Asp Asn Gln
 485 490 495
 Lys Leu Tyr Arg Trp Arg Cys Arg Ala Ala Thr Tyr Ala Asn Trp Pro
 500 505 510
 Thr Leu Arg Tyr Met Leu Arg Gly Asn Thr Val Ser Asp Ala Pro Leu
 515 520 525
 Ile Ile Gly Ser Leu Asp Pro Cys Tyr Ser Cys Thr Asp Arg Met Thr
 530 535 540
 Val Val Asp Val Arg Lys Lys Lys Ser Gln Val Val Pro Tyr Lys Glu
 545 550 555 560
 Leu Glu Arg Tyr Ser Ile Glu Arg Lys Asn Ser Pro Leu Lys

565

570

575

<210> 9671
 <211> 184
 <212> PRT
 <213> Enterobacter cloacae

<400> 9671

Gly	Phe	Ala	Met	Phe	Thr	Phe	Ile	Lys	Lys	Val	Ile	Lys	Thr	Gly	Ala
1				5					10					15	
Gln	Thr	Ser	Ser	Tyr	Pro	Leu	Glu	Pro	Ile	Pro	Val	Asp	Lys	Asn	Phe
		20						25					30		
Arg	Gly	Lys	Pro	Glu	His	Asn	Pro	Gln	Gln	Cys	Ile	Gly	Cys	Ala	Ala
		35					40					45			
Cys	Val	Asn	Ala	Cys	Pro	Ser	Asn	Ala	Leu	Thr	Val	Glu	Thr	Asp	Leu
	50					55					60				
Lys	Thr	Gly	Glu	Leu	Ala	Trp	Gln	Phe	Asn	Leu	Gly	Arg	Cys	Ile	Phe
65				70					75					80	
Cys	Gly	Arg	Cys	Glu	Glu	Val	Cys	Pro	Thr	Val	Ala	Ile	Arg	Leu	Ser
				85					90					95	
Gln	Glu	Tyr	Glu	Leu	Ala	Val	Trp	Lys	Lys	Glu	Asp	Phe	Leu	Gln	Gln
			100					105					110		
Ser	Arg	Phe	Ala	Leu	Cys	Asn	Cys	Arg	Val	Cys	Lys	Arg	Pro	Phe	Ala
		115					120					125			
Val	Gln	Lys	Glu	Ile	Asp	Tyr	Ala	Ile	Ala	Leu	Leu	Lys	His	Asn	Gly
	130					135					140				
Asp	Val	Arg	Ala	Glu	His	His	Arg	Glu	Ser	Phe	Glu	Thr	Cys	Pro	Glu
145					150					155				160	
Cys	Lys	Arg	Gln	Lys	Cys	Leu	Leu	Pro	Ser	Asp	Arg	Ile	Asp	Leu	Thr
				165					170					175	
Arg	His	Met	Arg	Glu	Ala	Ser									
				180											

<210> 9672
 <211> 791
 <212> PRT
 <213> Enterobacter cloacae

<400> 9672

Pro	Leu	Leu	Pro	Pro	Arg	Arg	Arg	Ser	Gly	Val	Tyr	Gly	Ser	Leu	Ser
1				5					10					15	
Asp	Ala	Cys	Ala	Gly	Leu	Arg	Arg	Ser	Arg	Gln	Ala	Arg	Thr	Asp	Glu
		20						25					30		
Cys	Arg	Lys	Thr	Ser	Pro	Arg	Gly	Val	Arg	His	Leu	Val	Ile	Thr	Ala
		35					40					45			
Val	Leu	Asn	Arg	Met	Ser	Ser	Asn	Gly	Val	Gln	Leu	Arg	Val	Arg	Gly
	50					55					60				
Lys	Val	Gln	Gly	Val	Gly	Phe	Arg	Pro	Phe	Val	Trp	Gln	Leu	Ala	His
65				70					75					80	
Arg	Leu	Lys	Leu	Val	Gly	Asp	Val	Cys	Asn	Asp	Gly	Glu	Gly	Val	Leu
				85					90					95	
Val	Arg	Leu	Ala	Gly	Ser	Gly	Gly	Asp	Phe	Thr	Ala	Arg	Leu	Arg	Gln
			100					105					110		
Asp	Cys	Pro	Pro	Leu	Ala	Arg	Ile	Asp	Arg	Val	Glu	Thr	Gln	Pro	Tyr
		115					120					125			
Ser	Trp	Asn	Thr	Leu	Pro	Asp	Glu	Phe	Val	Ile	Arg	His	Ser	Glu	Ser
	130					135					140				
Gly	Ala	Met	Asp	Thr	Gln	Ile	Val	Pro	Asp	Ala	Ala	Thr	Cys	Pro	Ala
145					150					155				160	
Cys	Leu	Ala	Glu	Met	Arg	Asp	Pro	Arg	Glu	Arg	Arg	Tyr	Arg	Tyr	Pro
				165					170					175	

Phe	Ile	Asn	Cys	Thr	His	Cys	Gly	Pro	Arg	Phe	Thr	Ile	Ile	Arg	Ala
			180					185					190		
Met	Pro	Tyr	Asp	Arg	Pro	Ala	Thr	Ser	Met	Ala	Pro	Phe	Pro	Leu	Cys
		195					200					205			
Met	Pro	Cys	Glu	Thr	Glu	Tyr	Arg	Asn	Pro	Ala	Asp	Arg	Arg	Phe	His
	210					215					220				
Ala	Gln	Pro	Val	Ala	Cys	Pro	Asp	Cys	Gly	Pro	Gln	Leu	Glu	Trp	Arg
225					230					235					240
Ala	Gly	Glu	Ala	Thr	Ala	Thr	Arg	Glu	Ser	Ala	Leu	Ser	Ala	Ala	Val
				245					250						255
Ala	Met	Leu	Glu	Gly	Gly	Gly	Ile	Val	Ala	Val	Lys	Gly	Leu	Gly	Gly
			260					265					270		
Phe	His	Leu	Val	Cys	Asp	Ala	Leu	Asn	Pro	Gln	Ala	Ile	Arg	Lys	Leu
		275					280					285			
Arg	Ala	Arg	Lys	Gln	Arg	Pro	Thr	Arg	Pro	Leu	Ala	Val	Met	Ile	Pro
	290					295					300				
His	Ala	Asn	Asp	Leu	Pro	Lys	Thr	Ile	Gln	Thr	Leu	Leu	Arg	Ser	Pro
305					310					315					320
Ala	Ala	Pro	Ile	Met	Leu	Thr	Pro	Lys	Ala	Cys	Leu	Pro	Ala	Phe	Pro
				325					330						335
Glu	Glu	Ile	Ala	Pro	Gly	Leu	Asn	Thr	Val	Gly	Val	Met	Leu	Pro	Ala
			340					345					350		
Asn	Pro	Leu	Gln	His	Leu	Leu	Met	Leu	Asp	Cys	Gln	Arg	Pro	Leu	Val
		355					360					365			
Met	Thr	Ser	Gly	Asn	Leu	Ser	Gly	Tyr	Pro	Pro	Val	Ile	Asn	Asn	Gln
	370					375					380				
Gln	Ala	Leu	Glu	Glu	Leu	Ser	Asp	Ile	Ala	Asp	Gly	Phe	Leu	Leu	His
385					390					395					400
Asn	Arg	Asp	Ile	Leu	Gln	Arg	Met	Asp	Asp	Ser	Val	Met	Asp	Gln	Glu
				405					410					415	
Gly	Thr	Met	Leu	Arg	Arg	Ala	Arg	Gly	Phe	Val	Pro	Asp	Ala	Ile	Thr
			420					425					430		
Leu	Pro	Ala	Gly	Phe	Arg	Asp	Ile	Pro	Pro	Met	Leu	Cys	Thr	Gly	Ala
		435					440					445			
Glu	Met	Lys	Asn	Thr	Phe	Cys	Leu	Val	Arg	Gly	Asn	Gln	Ala	Val	Leu
	450					455				460					
Ser	Gln	His	Phe	Gly	Asp	Leu	Ser	Asp	Glu	Gly	Val	Glu	Ala	Gln	Trp
465					470				475						480
Arg	Ser	Ala	Leu	Ser	Thr	Met	Gln	Glu	Ile	Tyr	Ala	Phe	Gln	Pro	Glu
				485					490					495	
Arg	Val	Val	Cys	Asp	Ala	His	Pro	Gly	Tyr	His	Ala	Arg	Gln	Trp	Ala
			500					505					510		
Arg	Thr	Gln	Ala	Leu	Pro	Val	Glu	Thr	Val	Leu	His	His	His	Ala	His
		515					520					525			
Ala	Val	Ala	Cys	Leu	Ala	Glu	Asn	Gly	Trp	Pro	Leu	Asp	Gly	Gly	Asp
	530					535					540				
Val	Ile	Ala	Leu	Thr	Leu	Asp	Gly	Ile	Gly	Met	Gly	Glu	Asn	Gly	Ala
545					550					555					560
Leu	Trp	Gly	Gly	Glu	Cys	Leu	Arg	Val	Asn	Tyr	Arg	Asp	Cys	Glu	Arg
				565					570					575	
Leu	Gly	Gly	Leu	Pro	Ala	Val	Ala	Leu	Pro	Gly	Gly	Asp	Leu	Ala	Ala
			580					585					590		
Lys	Gln	Pro	Trp	Arg	Asn	Leu	Leu	Ala	His	Cys	Leu	Ala	Phe	Val	Pro
		595					600					605			
Asp	Trp	Gln	Gln	Tyr	Pro	Glu	Thr	Val	Val	Val	Gln	Arg	Gln	Asn	Trp
	610					615					620				
Pro	Leu	Leu	Ala	Thr	Ala	Val	Ser	Arg	Gly	Ile	Asn	Ala	Pro	Arg	Ala
625					630					635					640
Ser	Ser	Cys	Gly	Arg	Leu	Phe	Asp	Ala	Val	Ala	Cys	Ala	Leu	Gly	Ile
				645					650					655	
Glu	Thr	Gln	Arg	Tyr	Glu	Gly	Glu	Ala	Ala	Cys	Arg	Leu	Glu	Ala	Leu

660				665				670							
Ala	Glu	Arg	Cys	Ala	Gly	Val	Asp	His	Pro	Val	Thr	Leu	Gln	Thr	Asp
675				680				685							
Asn	Leu	Ala	Leu	Phe	Trp	Gln	Gln	Trp	Leu	Ala	Trp	Arg	Ala	Glu	Pro
690				695				700							
Gly	Glu	Arg	Ala	Trp	Ala	Phe	His	Asp	Ala	Leu	Ala	Lys	Gly	Leu	Ser
705					710					715					
Glu	Leu	Ala	Ala	Thr	His	Ala	Arg	Arg	Arg	Ser	Leu	Ser	Thr	Val	Cys
				725					730						
Phe	Ser	Gly	Gly	Val	Leu	His	Asn	Arg	Leu	Leu	Arg	Ala	Arg	Leu	Arg
				740					745						
His	Tyr	Leu	Ser	Asp	Phe	Thr	Leu	Leu	Phe	Pro	Ser	Arg	Leu	Pro	Ala
				755					760						
Gly	Asp	Gly	Ala	Ile	Ser	Phe	Gly	Gln	Ala	Val	Val	Ala	Ala	Ala	Arg
				770					775						
Ser	Cys	Ser	Gln	Arg	Ile										
785					790										

<210> 9673

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9673

Thr	Lys	Gly	Ala	Gly	Ala	Phe	Val	Thr	Glu	Ala	Gln	Ala	Gly	His	Leu		
1				5				10				15					
Phe	His	Gln	Ser	Gly	Asn	Phe	Arg	His	His	His	Val	Ile	His	Gly	Gly		
				20					25					30			
Gly	Thr	His	Gln	His	Ala	Phe	Gly	Ala	Glu	Asp	Val	Gly	Gln	Tyr	Leu		
				35					40					45			
Ile	Leu	Ile	Ala	Ala	Arg	His	Val	Glu	Asp	Phe	His	Arg	His	Val	Arg		
				50					55					60			
Val	Asn	Phe	Val	Asp	Ala	Leu	Gly	Asn	Gly	Val	Arg	His	His	Ala	Gly		
65					70					75					80		
Val	Val	Gly	His	Gly	Val	Val	Glu	Asp	Arg	Asn	Ala	Val	Phe	Leu	Ile		
				85					90					95			
Val	Arg	Arg	Pro	Leu	Gln	Val	Gln	Phe	Asp	Asn	Leu	Gly	Trp	Ile	Phe		
				100					105					110			
Thr	Pro	Tyr	His	Ala	Val	Gly	Gly	Asn	His	Ile	His	Arg	Gln	Val			
				115					120					125			
Glu	Ala	Glu	Asp	Leu	Gly	Asp	Phe	Trp	Arg	Asp	Gln	Thr	Ala	Glu	Arg		
				130					135					140			
Gly	Gln	Asp	Val	Gly	Val	Val	Ala	Leu	Ala	Leu	Phe	Glu	Gln	Leu	Gly		
145					150					155					160		
Leu	Ile	His	Phe	Val	Val	Glu	Gln	Thr	Phe	Val	Ala	Val	Val	Leu	Ala		
				165					170					175			
Glu	Gly	Val	Val	Thr	Glu	Gln	His	Arg	Val	Thr	Gly	His	Val	Gly	His		
				180					185					190			
His	Ala	Val	Arg	Pro	Val	Gln	His	Trp	Gly	Phe	His	Glu	Asp	Gln	Leu		
				195					200					205			
Phe	Ala	Val	Ala	Asp	Ile	Gln	Arg	Val	Ala	Gly	Phe	His	Ser	Val	Glu		
				210					215					220			
Val	Pro	Leu	Arg	Met	Val	Val	Val	Ala	Val	Asp	Gly	Val	Asn	Gly	Val		
225					230					235					240		
Ser	Gly	Ala	Val	Asp	Arg	Gly	Ile	Arg	Asn	Val	Gly	His	Gln	Leu	Gly		
				245					250					255			
Gln	Arg	Pro	Gly	Met	Ile	Leu	Phe	Arg	Val	Val	Asp	Asp	Asn	Val	Val		
				260					265					270			
Asp	Leu	Ile	Gln	Ile	Asp	Phe	Ala	Ala	Gln	Val	Leu	His	Glu	Leu	Ala		
				275					280					285			
Ala	Glu	Phe	Val	Ile	Asp	Gly	Ile	Asp	Gln	Asp	Val	Phe	Thr	Phe	Thr		

290		295		300
Asn Glu Ile Ala Val	Val Ala Ala Ala Ala	Gln Arg Phe Val Phe Arg		
305	310	315		320
Pro Val Lys Ile Thr	Tyr Phe Pro Val Thr	Leu Thr His Pro Met Asn		
	325	330		335
Val Ile Phe Asn Gln	Asn Arg His Ser	Asn Leu Asn Leu Ile Arg Arg		
	340	345		350
Phe Gln Ile Arg				
355				

<210> 9674

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 9674

Gln Leu Thr Arg	Gln Ala Met Leu Asn Leu Gln Arg Thr Ala Met Phe
1	5 10 15
Ile Ala Val Ala Asp Thr Gly Ser Phe Thr Ala Ala Ala Glu Ala Met	
20	25 30
Gly Leu Thr Lys Ala Val Val Ser Phe His Ile Arg Gln Leu Glu Glu	
35	40 45
Glu Leu Gly Val Thr Leu Leu Leu Arg Thr Thr Arg Arg Leu Thr Leu	
50	55 60
Thr Glu Ala Gly Lys Leu Phe His Gln Arg Ser Val Met Leu Leu Arg	
65	70 75 80
Asp Ala Glu Arg Leu Gln Asp Asp Val Arg Ala Asn His Ala Gly Leu	
85	90 95
Thr Gly Glu Leu Arg Ile Thr Thr Thr Pro Glu Tyr Gly Ser Gln Val	
100	105 110
Val Val Pro Leu Leu Ala Glu Phe Ser Gln Leu His Pro Asp Leu Arg	
115	120 125
Val Arg His Val Ser Ser Ser Leu His Ala Asp Leu Ile Ala Glu Arg	
130	135 140
Phe Asp Val Ala Ile Arg Leu Gly Thr Leu Ala Asp Ser Arg Tyr His	
145	150 155 160
Ala Ala Leu Met Thr Ser Phe Thr Ile Leu Pro Val Ala Thr Pro Gly	
165	170 175
Trp Leu Ala Asn His Pro Val Asp Ser Leu Glu Gln Leu Ala Glu Ala	
180	185 190
Asp Trp Ile Ile His Glu Arg Leu Thr Ser Pro Leu Arg Trp Gln Val	
195	200 205
Arg Gly Val Asp Gly His Pro Val Ser Phe Glu Ile Lys Lys Ala Pro	
210	215 220
Arg Leu Tyr Ala Asp Ser Ala Gln Ala Leu Met Ala Phe Ala Leu Ala	
225	230 235 240
Gly Cys Gly Val Ala Leu Leu Pro Glu Trp Leu Val Arg Asn Ala Leu	
245	250 255
Asp Ala Gly Glu Leu Val Ser Leu Leu Pro Ala Tyr Thr Phe Ala Gln	
260	265 270
Gln Gly Ile Tyr Ala Val Tyr Pro Asp Ala Arg His Val Pro Ala Lys	
275	280 285
Val Arg Thr Phe Ile Asp Phe Met Arg Val Arg Val Thr	
290	295 300

<210> 9675

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 9675

Pro	Arg	Cys	Trp	Arg	His	Val	Asn	Lys	Glu	Glu	Lys	Met	Ile	Cys	Pro
1				5					10					15	
Arg	Cys	Ala	Asp	Glu	His	Ile	Glu	Val	Met	Ala	Thr	Ser	Pro	Val	Lys
			20					25					30		
Gly	Val	Trp	Thr	Val	Tyr	Gln	Cys	Gln	His	Cys	Leu	Tyr	Thr	Trp	Arg
		35					40					45			
Asp	Thr	Glu	Pro	Leu	Arg	Arg	Thr	Ser	Arg	Glu	His	Tyr	Pro	Glu	Ala
		50				55					60				
Phe	Arg	Met	Thr	Gln	Lys	Asp	Ile	Asp	Glu	Ala	Pro	Gln	Val	Pro	Thr
65					70					75					80
Ile	Pro	Pro	Leu	Leu											
				85											

<210> 9676

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 9676

Gln	Gly	Leu	Thr	Ala	Glu	Tyr	Asn	Tyr	Thr	Ser	Pro	Arg	Gln	Leu	Thr
1				5					10					15	
Ile	Leu	Phe	Ile	Val	Ser	Glu	Arg	His	Met	Phe	Trp	Ile	Ile	Asn	Asp
			20					25					30		
Lys	Ile	Lys	Phe	Cys	Pro	Glu	Arg	Asn	Leu	Leu	Ile	Ser	Leu	Thr	Arg
		35					40					45			
Pro	Asp	Leu	Asn	Val	Ile	Leu	Thr	Thr	Pro	Ala	Ser	Arg	Cys	Leu	Asn
		50				55					60				
Leu	Leu	Leu	Glu	Ser	Phe	Pro	Glu	Val	Val	Thr	Gln	Lys	Tyr	Phe	Phe
65					70					75					80
Asp	Lys	Val	Trp	Gly	Glu	Asp	Gly	Met	Leu	Val	Pro	Ala	Asn	Thr	Leu
				85					90					95	
Tyr	Gln	Asn	Ile	Ser	Ile	Ile	Arg	Arg	Gly	Leu	Arg	Thr	Thr	Gly	Glu
			100					105					110		
Thr	Asp	Asp	Thr	Leu	Val	Ala	Thr	Val	Pro	Arg	Lys	Gly	Phe	Gln	Ile
		115					120					125			
Glu	Lys	Asn	Val	Arg	Val	Thr	Arg	Val	Asp	Thr	Asp	Cys	Val	Asp	Asp
		130				135					140				
Gly	Lys	Lys	Ala	Thr	Ala	Thr	Gly	Val	Glu	Thr	Ser	Pro	Val	Glu	Thr
145					150					155					160
Lys	Asp	Lys	Pro	Val	Glu	Asn	Ile	Pro	Val	Met	Pro	Gly	Gly	Arg	Lys
				165				170						175	
Lys	Gln	Arg	Gln	Leu	Arg	Gln	Tyr	Ile	Phe	Pro	Thr	Ala	Leu	Met	Ile
			180					185					190		
Ile	Ala	Phe	Cys	Ala	Gly	Phe	Phe	Ala	Phe	Gln	Tyr	Leu	Leu	His	Asp
		195					200					205			
Asn	Pro	Glu	Lys	Asp	Phe	Phe	Arg	Asp	Tyr	Pro	Ile	Thr	Leu	Thr	Gln
		210				215					220				
Asn	Gly	Cys	His	Phe	Ser	Ser	Gln	Asn	Asp	Asp	Ile	Arg	Gly	Val	Gly
225					230					235					240
Asn	Phe	Arg	Arg	Phe	Ile	Lys	Ile	Ile	Leu	Asp	Thr	Gly	Leu	Asp	Cys
				245					250					255	
Lys	Lys	Tyr	Pro	Trp	Val	Tyr	Phe	Ser	Ser	Ser	Ser	His	Ala	Pro	Ala
			260					265					270		
Leu	Ser	Val	Leu	Ala	Cys	Arg	Glu	Pro	Phe	Glu	Ile	Lys	Ala	Asn	Ala
		275					280					285			
Gly	Cys	Ile	Ser	Leu	Tyr	Phe	Arg	Gly	His	Leu					
		290				295					300				

<210> 9677

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9677

Gly	Ala	Tyr	Pro	Met	Ser	Glu	Thr	Val	Val	Phe	Ser	Gln	Leu	Ser	Arg
1				5					10					15	
Lys	Phe	Ile	Asp	Glu	Asn	Asp	Ala	Thr	Pro	Asp	Ala	Ala	Gln	Gln	Val
			20					25					30		
Val	Tyr	Tyr	Ser	Leu	Ala	Ile	Gly	His	His	Leu	Gly	Val	Ile	Asp	Cys
		35					40					45			
Leu	Glu	Ala	Ala	Leu	Thr	Cys	Pro	Trp	Pro	Glu	Tyr	Leu	Ala	Trp	Ile
	50					55					60				
Val	Thr	Leu	Glu	Glu	Gly	Ser	Thr	Ala	Arg	Arg	Lys	Met	Glu	Gly	Val
65					70					75					80
Pro	Lys	Tyr	Gly	Glu	Ile	Val	Ile	Asp	Ala	Asn	His	Ile	Ala	Met	Leu
				85					90					95	
Ala	Asn	Ala	Phe	Asp	Ala	Ala	Leu	Ser	Val	Gln	Thr	Pro	Ala	Gln	Gln
			100					105					110		
Ala	Trp	Ser	Lys	Thr	Leu	Leu	Gly	Met	Leu	His	Asp	Ile	His	Gln	Glu
		115					120					125			
Ser	Ala	Ile	Tyr	Leu	Met	Val	Arg	Arg	Leu	Arg	Asp				
	130					135					140				

<210> 9678

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 9678

Ser	Thr	Leu	Arg	Leu	Ile	Gly	Phe	Glu	Trp	Asn	Asn	Thr	Met	Thr	Thr
1				5					10					15	
Met	Leu	Glu	Val	Ala	Lys	Arg	Ala	Gly	Val	Ser	Lys	Ala	Thr	Val	Ser
			20					25					30		
Arg	Val	Leu	Ser	Gly	Asn	Gly	Tyr	Val	Ser	Gln	Glu	Thr	Lys	Asp	Arg
		35					40					45			
Val	Phe	Gln	Ala	Ile	Glu	Glu	Ser	Gly	Tyr	Arg	Pro	Asn	Leu	Leu	Ala
	50					55					60				
Arg	Asn	Leu	Ala	Thr	Lys	Arg	Thr	Gln	Thr	Leu	Gly	Leu	Val	Val	Thr
65					70					75					80
Asn	Thr	Leu	Tyr	His	Gly	Val	Tyr	Phe	Ser	Glu	Leu	Leu	Phe	Asn	Ala
				85					90					95	
Ala	Arg	Met	Thr	Glu	Glu	Lys	Gly	Arg	Gln	Leu	Ile	Leu	Ala	Asp	Gly
			100					105					110		
Lys	His	Ser	Ala	Glu	Glu	Glu	Arg	Glu	Ala	Ile	Gln	Tyr	Leu	Leu	Asp
		115					120					125			
Met	Arg	Cys	Asp	Ala	Val	Ile	Ile	Tyr	Pro	Arg	Phe	Leu	Ser	Val	Glu
	130					135					140				
Ala	Leu	Asp	Glu	Ile	Ile	Glu	Lys	Cys	Glu	Gln	Pro	Ile	Met	Val	Leu
145					150					155					160
Asn	Arg	Arg	Leu	Arg	Lys	Asn	Ser	Ser	His	Ser	Val	Trp	Ser	Asp	His
				165					170					175	
Lys	Ala	Ser	Cys	Gln	Asp	Ala	Val	Ser	Gln	Leu	Ile	Ala	Lys	Gly	His
			180					185					190		
Arg	Glu	Ile	Ala	Phe	Ile	Thr	Gly	Ser	Leu	Asp	Ser	Pro	Thr	Gly	Val
		195					200					205			
Glu	Arg	Leu	Ser	Gly	Tyr	Arg	Glu	Ala	Leu	Ala	Gln	His	Gly	Ile	Ala
	210					215					220				
Val	Arg	Asp	Ala	Leu	Ile	Ala	Glu	Gly	Lys	Trp	Ser	Pro	Ala	Ser	Gly
225					230					235					240
Ala	Ala	Ala	Val	Ser	Gln	Leu	Leu	Thr	Arg	Gly	Glu	Ala	Phe	Thr	Ala
			245						250					255	
Leu	Val	Ala	Ser	Asn	Asp	Asp	Met	Ala	Ile	Gly	Ala	Ile	Arg	Gln	Leu

Pro Arg Ala Ala Cys Leu Leu Leu Ala Leu Gly Met Ala Asn Leu Leu
 85 90 95
 Ala Trp Gly Leu Ala Trp His Thr Phe Ser Asp Ser Thr Ala Leu Met
 100 105 110
 Ala Ala Ser Leu Leu Ala Trp Cys Tyr Gly Leu Arg His Ala Val Asp
 115 120 125
 Ala Asp His Ile Ala Ala Ile Asp Thr Val Thr Arg Lys Met Met Gln
 130 135 140
 Gln Gly Lys Arg Pro Ser Gly Val Gly Ala Trp Phe Ser Leu Gly His
 145 150 155 160
 Ser Thr Ile Val Val Leu Ala Ser Ile Ala Ile Ala Ala Thr Ala Thr
 165 170 175
 Ala Phe Gln Lys Asn Met Ala Trp Phe His Glu Thr Gly Ser Leu Ile
 180 185 190
 Gly Thr Ala Val Ser Ala Thr Phe Leu Leu Ala Met Ala Leu Val Asn
 195 200 205
 Met Val Ile Leu Arg Gly Val Trp Arg Ser Phe Gln Ala Leu Lys His
 210 215 220
 Gly Arg Pro Val Gln Gly Asp Ile Thr Leu Pro Ala Gln Gly Gly Val
 225 230 235 240
 Met Asn Trp Leu Phe Gly Lys Thr Phe Arg Leu Val Asn Lys Ser Trp
 245 250 255
 Gln Met Tyr Leu Val Gly Phe Leu Phe Gly Leu Gly Phe Asp Thr Ala
 260 265 270
 Thr Glu Ile Gly Val Leu Gly Ile Ser Ala Ala Ser Ala Ser Ser Gly
 275 280 285
 Met Ser Val Trp Ser Ile Met Ile Phe Pro Ala Leu Phe Ala Ser Gly
 290 295 300
 Met Ala Leu Val Asp Thr Leu Asp Asn Leu Leu Met Val Gly Ala Tyr
 305 310 315 320
 Gly Trp Ala Phe Asn Lys Pro Gln Arg Lys Leu Tyr Tyr Asn Met Thr
 325 330 335
 Ile Thr Gly Thr Ser Val Val Val Ala Leu Phe Ile Gly Gly Leu Glu
 340 345 350
 Ala Leu Gly Leu Leu Met Asp Lys Phe Ser Leu Ser Gly Gly Val Trp
 355 360 365
 Asp Leu Ile Gly Ala Val Asn Asp Asn Leu Gly Asp Ala Gly Phe Val
 370 375 380
 Val Val Gly Leu Phe Val Ala Cys Trp Leu Ile Ser Met Ala Asn Tyr
 385 390 395 400
 Arg Trp Arg Gly Tyr Asp Ala Leu Val Val Arg Ser
 405 410

<210> 9681

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 9681

Cys Ser Gln Met Gly Ser His Phe Asp Tyr Leu Lys Asn Cys Gln Tyr
 1 5 10 15
 Asp Thr Met His Cys Gln Asn Asp Ser Glu Ala Glu Met Ser Phe Ser
 20 25 30
 Val Asp Val Leu Ala Lys Ile Ala Ile Glu Leu Gln Thr Gly Ile Gly
 35 40 45
 His Gln Asp Arg Phe Gln Arg Leu Ile Ser Thr Leu Arg His Val Leu
 50 55 60
 Asp Cys Asp Ala Ser Ala Leu Leu Arg Tyr Glu Gly Arg Gln Phe Ile
 65 70 75 80
 Pro Leu Ala Ile Asp Gly Leu Ala Lys Asp Val Leu Gly Arg Arg Phe
 85 90 95

Thr Leu Glu Gly His Pro Arg Leu Glu Thr Ile Ala Arg Ala Gly Asp
 100 105 110
 Val Val Arg Phe Pro Ala Asp Ser Asp Leu Pro Asp Pro Tyr Asp Gly
 115 120 125
 Leu Ile Pro Gly Gln Glu Ser Leu Lys Val His Ala Cys Ile Gly Leu
 130 135 140
 Pro Leu Phe Ala Gly Gln Asn Leu Ile Gly Ala Leu Thr Leu Asp Gly
 145 150 155 160
 Met Ser Pro Asp Gln Phe Asp Thr Phe Ser Asp Glu Glu Leu Arg Leu
 165 170 175
 Ile Ala Ala Leu Ala Ala Gly Ala Leu Asn Asn Ala Leu Leu Ile Glu
 180 185 190
 Gln Leu Glu Ser Gln Asn Ile Leu Pro Gly Ser Pro Thr Ala Phe Glu
 195 200 205
 Gln Val Ala His Thr Glu Met Ile Gly Leu Ser Pro Gly Met Ala Gln
 210 215 220
 Leu Lys Lys Glu Ile Glu Ile Val Ala Ala Ser Asp Leu Asn Val Leu
 225 230 235 240
 Ile Phe Gly Glu Thr Gly Thr Gly Lys Glu Leu Val Ala Lys Ala Ile
 245 250 255
 His Glu Ala Ser Pro Arg Ala Val Asn Pro Leu Val Tyr Leu Asn Cys
 260 265 270
 Ala Ala Leu Pro Glu Ser Val Ala Glu Ser Glu Leu Phe Gly His Val
 275 280 285
 Lys Gly Ala Phe Thr Gly Ala Ile Ser Asn Arg Ser Gly Lys Phe Glu
 290 295 300
 Met Ala Asp Asn Gly Thr Leu Phe Leu Asp Glu Ile Gly Glu Leu Ser
 305 310 315 320
 Leu Ser Leu Gln Ala Lys Leu Leu Arg Val Leu Gln Tyr Gly Asp Ile
 325 330 335
 Gln Arg Val Gly Asp Asp Arg Ser Leu Arg Val Asp Val Arg Val Leu
 340 345 350
 Ala Ala Thr Asn Arg Asp Leu Arg Glu Glu Val Leu Ala Gly Asn Phe
 355 360 365
 Arg Ala Asp Leu Phe His Arg Leu Ser Val Phe Pro Leu Thr Val Pro
 370 375 380
 Pro Leu Arg Glu Arg Gly Glu Asp Val Val Leu Leu Ala Gly Phe Phe
 385 390 395 400
 Cys Glu Gln Cys Arg Leu Lys Met Gly Leu Ser Arg Val Val Leu Ser
 405 410 415
 Pro Gly Ala Arg Thr His Leu Leu Ser Tyr Gly Trp Pro Gly Asn Val
 420 425 430
 Arg Glu Leu Glu His Ala Ile His Arg Ala Val Val Leu Ala Arg Ala
 435 440 445
 Thr Arg Ser Gly Asp Glu Val Val Ile His Ala Arg His Phe Ala Leu
 450 455 460
 His Glu Glu Thr Thr Pro Ser Val Lys Pro Val Ile Pro Glu Ser Val
 465 470 475 480
 Asn Glu Asn Leu Arg Glu Ala Thr Asn Ala Phe Gln Arg Gln Met Ile
 485 490 495
 Ala Arg Ala Leu Glu Gln Asn Asn Arg Ser Trp Ala Ala Cys Ala Arg
 500 505 510
 Ala Leu Glu Met Asp Val Ala Asn Leu His Arg Leu Ala Lys Arg Leu
 515 520 525
 Gly Leu Lys Gly
 530

<210> 9682

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9682

Gly Ser Gly Ser Ala Gly Cys His Pro Arg Leu His Val Lys Ile Tyr
 1 5 10 15
 Phe Val Ile Lys Glu Arg His Met Ser Gln Val Ala Val Val Ile Gly
 20 25 30
 Gly Gly Gln Thr Leu Gly Glu Phe Leu Cys His Gly Leu Ala Ala Glu
 35 40 45
 Gly Tyr Arg Val Ala Val Val Asp Ile Gln Ser Glu Lys Ala Ala Arg
 50 55 60
 Val Ala Asp Ala Ile Asn Thr Glu Phe Gly Glu Gly Met Ala Tyr Gly
 65 70 75 80
 Phe Gly Ala Asp Ala Thr Ser Glu Gln Ser Val Met Ala Leu Ala Arg
 85 90 95
 Gly Val Asp Glu Ile Phe Gly Arg Ile Asp Leu Leu Val Tyr Ser Ala
 100 105 110
 Gly Ile Ala Lys Ala Ala Phe Ile Ser Asp Phe Glu Leu Gly Asp Phe
 115 120 125
 Asp Arg Ser Leu Gln Val Asn Leu Val Gly Tyr Phe Leu Cys Ala Arg
 130 135 140
 Glu Phe Ser Arg Leu Met Ile Arg Asp Gly Ile Gln Gly Arg Ile Ile
 145 150 155 160
 Gln Ile Asn Ser Lys Ser Gly Lys Val Gly Ser Lys His Asn Ser Gly
 165 170 175
 Tyr Ser Ala Ala Lys Phe Gly Gly Val Gly Leu Thr Gln Ser Leu Ala
 180 185 190
 Leu Asp Leu Ala Glu Tyr Gly Ile Thr Val His Ala Leu Met Leu Gly
 195 200 205
 Asn Leu Leu Lys Ser Pro Met Phe Gln Ser Leu Leu Pro Gln Tyr Ala
 210 215 220
 Ala Lys Leu Gly Ile Lys Ala Glu Glu Val Glu Gln Tyr Tyr Ile Asp
 225 230 235 240
 Lys Val Pro Leu Lys Arg Gly Cys Asp Tyr Gln Asp Val Leu Asn Met
 245 250 255
 Leu Leu Phe Tyr Ala Ser Pro Lys Ala Ser Tyr Cys Thr Gly Gln Ser
 260 265 270
 Ile Asn Val Thr Gly Gly Gln Val Met Phe
 275 280

<210> 9683

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 9683

Gly Gly Val Met His Glu Ile Thr Leu Cys Gln Arg Ala Leu Glu Leu
 1 5 10 15
 Ile Glu Gln Gln Ala Val Gln Asn His Ala Lys Arg Val Thr Gly Val
 20 25 30
 Trp Leu Lys Val Gly Ala Phe Ser Cys Val Glu Thr Ser Ala Leu Thr
 35 40 45
 Phe Cys Phe Glu Leu Val Cys Arg Gly Thr Leu Ala Glu Gly Cys Ala
 50 55 60
 Leu His Ile Glu Glu Gln Gln Ala Glu Cys Trp Cys Glu Gln Cys Gln
 65 70 75 80
 Glu Tyr Val Thr Leu Leu Ser Ser Lys Val Gln Arg Cys Pro Gln Cys
 85 90 95
 Gln Ser Ser Gly Leu Arg Ile Val Ala Asp Asp Gly Met Gln Ile Gln
 100 105 110
 Arg Leu Glu Ile Glu Lys Glu
 115 120

<210> 9684
 <211> 289
 <212> PRT
 <213> Enterobacter cloacae

<400> 9684
 Ser Met Cys Ser Thr Cys Gly Cys Ala Glu Gly Asn Leu Tyr Ile Glu
 1 5 10 15
 Gly Asp Glu His Arg Pro His Ser Ala Phe Arg Ser Ala Pro Phe Ser
 20 25 30
 Pro Ala Pro Arg Pro Ala Ala Ala Leu Thr Gly Ile Thr Phe Ala Pro
 35 40 45
 Gln Arg Ser Asp Ala Gly Asp Leu His Tyr Gly Arg Gly Glu Ala Gly
 50 55 60
 Thr His Ala Pro Gly Ile Ser Gln Arg Gln Met Leu Glu Val Glu Ile
 65 70 75 80
 Asn Val Leu Asp Lys Asn Asn Gln Leu Ala Val Arg Asn Arg Ala Arg
 85 90 95
 Phe Ala Ala Arg Glu Gln Leu Val Leu Asn Leu Val Ser Ser Pro Gly
 100 105 110
 Ser Gly Lys Thr Thr Leu Leu Thr Glu Thr Leu Lys Arg Leu Asn Lys
 115 120 125
 Arg Val Ser Cys Ala Val Ile Glu Gly Asp Gln Gln Thr Val Asn Asp
 130 135 140
 Ala Ala Arg Ile Arg Glu Thr Gly Thr Pro Ala Ile Gln Val Asn Thr
 145 150 155 160
 Gly Lys Gly Cys His Leu Asp Ala Gln Met Ile Ala Asp Ala Ala Pro
 165 170 175
 Arg Leu Pro Leu Ala Asn Asn Gly Ile Leu Phe Ile Glu Asn Val Gly
 180 185 190
 Asn Leu Val Cys Pro Ala Ser Phe Asp Leu Gly Glu Arg His Lys Val
 195 200 205
 Ala Val Leu Ser Val Thr Glu Gly Glu Asp Lys Pro Leu Lys Tyr Pro
 210 215 220
 His Met Phe Ala Ala Ala Ser Leu Met Leu Leu Asn Lys Val Asp Leu
 225 230 235 240
 Leu Pro Tyr Leu Asn Phe Asp Val Asp Lys Cys Leu Ala Tyr Ala Arg
 245 250 255
 Glu Val Asn Pro Asp Ile Glu Ile Leu Val Ser Ala Thr Arg Gly
 260 265 270
 Asp Gly Met Asp Ala Trp Leu Asn Trp Leu Glu Asn Glu Arg Cys Ala
 275 280 285

<210> 9685
 <211> 703
 <212> PRT
 <213> Enterobacter cloacae

<400> 9685
 Ile Ser Leu Phe Ala Ser Phe Tyr Trp Lys Ala Thr Met Pro Tyr Thr
 1 5 10 15
 Pro Met Ser Asp Leu Gly Gln Gln Gly Leu Phe Asp Ile Thr Arg Thr
 20 25 30
 Leu Leu Gln Gln Pro Asp Leu Gly Ala Leu Ser Asp Ala Leu Thr Arg
 35 40 45
 Leu Val Arg Gln Ser Ala Leu Ala Asp Ser Ala Ala Ile Val Leu Trp
 50 55 60
 His Ser Ala Thr His Arg Ala Ser Tyr Phe Ser Thr Arg Asp Asn Gly

65					70					75				80
Lys	Ile	Phe	Glu	Tyr	Glu	Asp	Glu	Thr	Phe	Leu	Ala	His	Gly	Pro Val
				85					90				95	
Arg	Arg	Ile	Leu	Ser	Arg	Pro	Glu	Ala	Leu	His	Cys	Asn	Phe	Asp Gln
			100					105					110	
Phe	Arg	Gln	Ala	Trp	Pro	Lys	Leu	Ala	Glu	Ser	Asn	Leu	Tyr	His Pro
		115					120					125		
Phe	Gly	His	Tyr	Ser	Met	Leu	Pro	Leu	Ala	Val	Glu	Gly	Gln	Ile Phe
	130					135					140			
Gly	Gly	Cys	Glu	Phe	Ile	Arg	Asp	Thr	Asp	Gln	Pro	Trp	Ser	Glu Ala
145					150					155				160
Glu	Tyr	Glu	Arg	Leu	His	Thr	Phe	Thr	Gln	Ile	Val	Ala	Val	Val Ala
				165					170					175
Glu	Gln	Ile	Gln	Ser	Arg	Val	Thr	Asn	Asn	Val	Asp	Tyr	Asp	Leu Leu
			180					185					190	
Ser	Arg	Glu	Arg	Asp	Asn	Phe	Arg	Ile	Leu	Val	Ala	Ile	Thr	Asn Ala
		195					200					205		
Val	Leu	Ser	Arg	Leu	Asp	Met	Asp	Glu	Leu	Val	Ser	Glu	Val	Ser Lys
	210					215					220			
Glu	Ile	His	His	Tyr	Phe	Lys	Ile	Asp	Ala	Ile	Ser	Ile	Ala	Leu Arg
225					230					235				240
Gly	Asn	Arg	Lys	Gly	Lys	Leu	Asn	Ile	Tyr	Ser	Thr	His	Tyr	Leu Asp
				245					250					255
Glu	Ala	Asn	Pro	Ala	His	Glu	Gln	Ser	Glu	Val	Asp	Glu	Ala	Gly Thr
			260					265					270	
Leu	Ser	Glu	Arg	Val	Phe	Lys	Ser	Lys	Glu	Ile	Leu	Leu	Leu	Asn Leu
		275					280					285		
Asn	Glu	Gln	Asp	Pro	Val	Ala	Pro	Tyr	Glu	Arg	Met	Leu	Phe	Asn Thr
	290					295					300			
Trp	Gly	Asn	Lys	Ile	Gln	Thr	Leu	Cys	Leu	Leu	Pro	Leu	Met	Ser Gly
305					310					315				320
Asn	Thr	Met	Leu	Gly	Val	Leu	Lys	Leu	Ala	Gln	Cys	Asp	Glu	Ala Val
				325					330					335
Phe	Thr	Thr	Ala	Asn	Leu	Lys	Leu	Leu	Arg	Gln	Ile	Ala	Glu	Arg Ile
			340					345					350	
Ser	Ile	Ala	Leu	Asp	Asn	Ala	Leu	Ala	Tyr	Gln	Glu	Ile	His	Arg Leu
		355					360					365		
Lys	Glu	Arg	Leu	Val	Asp	Glu	Asn	Leu	Ala	Leu	Thr	Glu	Gln	Leu Asn
	370					375						380		
Asn	Val	Asp	Ser	Glu	Phe	Gly	Glu	Ile	Ile	Trp	Arg	Ser	Asp	Ala Met
385					390					395				400
Tyr	Ser	Val	Leu	Lys	Gln	Val	Glu	Met	Val	Ala	Gln	Ser	Asp	Ser Thr
				405					410					415
Val	Leu	Ile	Leu	Gly	Glu	Thr	Gly	Thr	Gly	Lys	Glu	Leu	Ile	Ala Arg
			420					425					430	
Ala	Ile	His	Asn	Leu	Ser	Asn	Arg	Asn	Ser	Arg	Arg	Met	Val	Lys Met
		435					440					445		
Asn	Cys	Ala	Ala	Met	Pro	Ala	Gly	Leu	Leu	Glu	Ser	Asp	Leu	Phe Gly
	450					455					460			
His	Glu	Arg	Gly	Ala	Phe	Thr	Gly	Ala	Ser	Ser	Gln	Arg	Leu	Gly Arg
465					470					475				480
Phe	Glu	Leu	Ala	Asp	Lys	Ser	Ser	Leu	Phe	Leu	Asp	Glu	Val	Gly Asp
				485					490					495
Met	Pro	Leu	Glu	Leu	Gln	Pro	Lys	Leu	Leu	Arg	Val	Leu	Gln	Glu Gln
		500						505					510	
Glu	Phe	Glu	Arg	Leu	Gly	Ser	Asn	Lys	Leu	Ile	Gln	Thr	Asp	Val Arg
		515					520					525		
Leu	Ile	Ala	Ala	Thr	Asn	Arg	Asp	Leu	Lys	Lys	Met	Val	Ala	Asp Arg
	530					535					540			
Glu	Phe	Arg	Ser	Asp	Leu	Tyr	Tyr	Arg	Leu	Asn	Val	Phe	Pro	Ile Cys
545					550					555				560


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<210> 9686
<211> 110
<212> PRT
<213> Enterobacter cloacae
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Arg	Val	Phe	Thr	Val	Ile	Leu	Tyr	Arg	Gln	Ser	Glu	His	Thr	Leu	Pro
1				5					10					15	
Thr	Val	Thr	Gly	Gly	Ser	Met	Gln	Gly	Met	Ala	Ile	Thr	Lys	Pro	Tyr
			20					25					30		
Arg	His	Leu	Lys	Val	Gly	Tyr	Phe	Arg	Lys	Arg	His	Glu	Asp	Arg	Lys
		35					40					45			
Thr	Lys	Ile	Pro	Thr	Arg	Tyr	Ser	Val	His	Ala	Ala	Leu	Asn	Leu	Lys
	50					55					60				
Gly	Asp	Trp	Leu	Glu	Lys	Ala	Gly	Phe	Leu	Thr	His	Ser	Gln	Val	Arg
65					70				75					80	
Val	Glu	Val	Gly	Pro	Gly	Lys	Ile	Ile	Ile	Glu	Leu	Ile	Lys	Glu	Pro
				85					90					95	
Asp	Asp	Gly	His	Pro	Gly	His	Val	Val	Gln	Arg	Glu	Gln			
			100					105					110		

<211> 330
<212> PRT
<213> Enterobacter cloacae

Thr 1	Glu	Ser	Pro	Ser 5	Phe	Arg	Ser	His	Ser 10	Met	Asn	Arg	Ile	Arg 15	Ile
Glu	Lys	Gly	Thr 20	Gly	Gly	Trp	Gly	Gly 25	Pro	Leu	Glu	Phe	Asp 30	Ala	Thr
Glu	Gly	Lys 35	Lys	Ile	Val	Tyr	Ile 40	Thr	Ala	Gly	Thr	Arg 45	Pro	Ala	Ile
Val	Asp 50	Lys	Leu	Arg	Glu	Leu 55	Thr	Gly	Trp	Glu	Ala 60	Val	Asp	Gly	Phe
Lys 65	Glu	Gly	Glu	Pro 70	Pro	Glu	Ala	Glu	Ile 75	Gly	Val	Ala	Val	Ile 80	Asp
Cys	Gly	Gly	Thr 85	Leu	Arg	Cys	Gly	Ile 90	Tyr	Pro	Lys	Arg	Arg 95	Ile	Pro
Thr	Val	Asn 100	Ile	His	Ser	Thr	Gly 105	Lys	Ser	Gly	Pro	Leu 110	Ala	Gln	Tyr
Ile	Val	Glu	Asp	Ile	Tyr	Val	Ser	Gly	Val	Lys	Glu	Asp	Asn	Ile	Thr

```

      115      120      125
Leu Val Asn Gly Thr Ser Ala Pro Gln Lys Ala Ala Pro Arg Glu Tyr
130      135      140
Asp Thr Ser Lys Lys Ile Thr Glu Gln Ser Asp Gly Leu Leu Ala Lys
145      150      155      160
Val Gly Met Gly Met Gly Ser Ala Val Ala Val Leu Phe Gln Ser Gly
      165      170      175
Arg Asp Thr Ile Asp Thr Val Leu Lys Thr Ile Leu Pro Phe Met Ala
      180      185      190
Phe Val Ser Ala Leu Ile Gly Ile Ile Met Ala Ser Gly Leu Gly Asp
      195      200      205
Trp Ile Ala His Gly Leu Ala Pro Leu Ala Ser His Pro Leu Gly Leu
      210      215      220
Val Thr Leu Ala Leu Ile Cys Ser Phe Pro Leu Leu Ser Pro Phe Leu
      225      230      235      240
Gly Pro Gly Ala Val Ile Ala Gln Val Ile Gly Val Leu Ile Gly Val
      245      250      255
Gln Ile Gly Leu Gly Asn Ile Leu Pro His Leu Ala Leu Pro Ala Leu
      260      265      270
Phe Ala Ile Asn Ala Gln Ala Ala Cys Asp Phe Ile Pro Val Gly Leu
      275      280      285
Ser Leu Ala Glu Ala Arg Gln Glu Thr Val Arg Val Gly Val Pro Ser
      290      295      300
Val Leu Val Ser Arg Phe Leu Thr Gly Ala Pro Thr Val Leu Ile Ala
      305      310      315      320
Trp Phe Val Ser Gly Phe Ile Tyr Gln
      325      330

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<210> 9688

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 9688

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Glu Val Pro Ala Met Thr Val Ile Tyr Gln Thr Thr Ile Thr Arg Ile
1      5      10      15
Gly Gln Ser Ala Ala Asp Ala Leu Ser Asp Gln Met Leu Ile Thr Phe
      20      25      30
Arg Glu Gly Ala Pro Ala Asp Ile Glu Glu Phe Cys Phe Ile His Cys
      35      40      45
His Gly Glu Leu Asn Gly Glu Leu Lys Ala Gly Ser Gln Leu Glu Leu
      50      55      60
Gly Lys Ala Arg Tyr Ala Val Thr Ala Val Gly Asp Val Ala Glu Gln
      65      70      75      80
Asn Leu Arg Glu Leu Gly His Ile Thr Leu Arg Phe Asp Gly Gln Pro
      85      90      95
Gln Ala Glu Tyr Pro Gly Thr Val His Val Glu Gly Pro Val Pro Gln
      100      105      110
Ala Val Thr Pro Gly Cys Thr Leu Lys Phe Ile Ser
      115      120      125

```

<210> 9689

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 9689

```

Gln Gly Ala Asp Met Val Thr Ala Leu Ile Thr Val Ala Ala Leu Ala
1      5      10      15
Trp Ile Cys Gln Met Ala Phe Gly Gly Trp Gln Ile Tyr Gln Phe Asn
      20      25      30

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Arg	Ala	Phe	Asp	Ala	Leu	Cys	Gln	Lys	Gly	Arg	Val	Gly	Val	Gly	Arg
	35						40					45			
Ser	Gly	Gly	Arg	Phe	Lys	Pro	Arg	Val	Val	Val	Ala	Val	Ala	Leu	Asp
	50					55					60				
Glu	His	Asn	Arg	Val	Ser	Asp	Ser	Leu	Ile	Met	Arg	Gly	Val	Thr	Val
65					70					75					80
Phe	Ala	Arg	Pro	Thr	Lys	Ile	Gln	Ala	Ile	Asn	Gly	Ile	Ser	Leu	His
				85					90						95
Glu	Leu	Gln	Pro	Asp	Val	Ile	Phe	Pro	His	Asp	Ser	Leu	Cys	Gln	Asn
			100					105					110		
Ala	Leu	Ser	Leu	Ala	Leu	Asn	Leu	Lys	His	Gly					
			115					120							

<210> 9690

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9690

Phe	Arg	Cys	Glu	Ser	Tyr	Lys	Leu	Ala	Glu	Leu	Ser	Phe	Arg	Asn	Val
1				5					10					15	
Arg	Asn	Glu	Ala	Pro	Met	Lys	Pro	Arg	Gln	Arg	Gln	Ala	Ala	Ile	Leu
			20					25					30		
Glu	His	Leu	Gln	Lys	Gln	Gly	Lys	Cys	Ser	Val	Glu	Asp	Leu	Ala	His
		35				40						45			
Tyr	Phe	Asp	Thr	Thr	Gly	Thr	Thr	Ile	Arg	Lys	Asp	Leu	Val	Leu	Leu
	50				55						60				
Glu	Asn	Ser	Gly	Ala	Val	Ile	Arg	Thr	Tyr	Gly	Gly	Val	Val	Leu	Asn
65					70					75					80
Lys	Asp	Glu	Ala	Asp	Pro	Pro	Ile	Asp	His	Lys	Thr	Leu	Ile	Asn	Thr
				85					90					95	
His	Gln	Lys	Ala	Leu	Ile	Ala	Glu	Ala	Ala	Val	Lys	Phe	Ile	His	Asp
			100					105					110		
Gly	Asp	Ser	Ile	Ile	Leu	Asp	Ala	Gly	Ser	Thr	Val	Leu	Gln	Met	Ile
			115				120					125			
Pro	Leu	Leu	Ser	Arg	Phe	Asn	Asn	Ile	Thr	Val	Met	Thr	Asn	Ser	Leu
			130			135					140				
His	Ile	Val	Asn	Ala	Leu	Ser	Glu	Phe	Asp	Ser	Glu	Gln	Thr	Ile	Leu
145					150					155					160
Met	Pro	Gly	Gly	Thr	Phe	Arg	Lys	Lys	Ser	Ala	Ser	Phe	His	Gly	Gln
				165					170					175	
Leu	Ala	Glu	Asn	Ala	Phe	Asp	His	Phe	Ser	Phe	Asp	Lys	Leu	Phe	Met
			180					185					190		
Gly	Thr	Asp	Gly	Ile	Asp	Leu	Asn	Ala	Gly	Val	Thr	Thr	Phe	Asn	Glu
		195					200					205			
Val	Phe	Ser	Val	Ser	Lys	Ala	Met	Cys	Asn	Ala	Ala	Arg	Glu	Val	Phe
	210					215					220				
Leu	Met	Ala	Asp	Ser	Ser	Lys	Phe	Gly	Arg	Lys	Ser	Pro	Asn	Ile	Val
225					230					235					240
Cys	Ser	Leu	Glu	Ser	Val	Asp	Lys	Leu	Ile	Thr	Asp	Ala	Gly	Ile	Asp
				245					250					255	
Pro	Ala	Phe	Lys	Lys	Ala	Leu	Glu	Ala	Lys	Gly	Ile	Asp	Val	Ile	Val
			260					265					270		
Thr	Gly	Glu	Lys	Asn	Glu										
					275										

<210> 9691

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 9691

Thr Gly Asn Gly Gly Lys Met Ser His Gly Ile Val Ile Ile Gly Ser
 1 5 10 15
 Gly Phe Ala Ala Arg Gln Leu Val Lys Asn Ile Arg Lys Gln Asp Ala
 20 25 30
 Asn Val Pro Leu Thr Val Ile Ala Ala Asp Ser Met Asp Glu Tyr Asn
 35 40 45
 Lys Pro Asp Leu Ser His Val Ile Ser Gln Asn Gln Arg Ala Asp Asp
 50 55 60
 Leu Thr Arg Gln Thr Ala Gly Glu Phe Ala Glu Gln Phe Asn Leu Arg
 65 70 75 80
 Leu Phe Pro Tyr Thr Trp Val Thr Asp Ile Asp Ala Asp Ala His Val
 85 90 95
 Val Asn Ala Lys Asp Lys Thr Trp His Tyr Asp Lys Leu Val Leu Ala
 100 105 110
 Thr Gly Ala Ser Ala Phe Val Pro Pro Val Glu Gly Arg Glu Leu Met
 115 120 125
 Val Thr Leu Asn Ser Gln Gln Glu Tyr Gln Ala Ser Glu Thr Leu Leu
 130 135 140
 Arg Asp Ala Thr Arg Val Met Ile Val Gly Gly Glu Ile Gly Thr
 145 150 155 160
 Glu Leu Ala Met Asp Phe Cys Arg Ala Gly Lys Ser Val Thr Leu Val
 165 170 175
 Asp His Ala Ala Ser Ile Leu Ser Ala Leu Met Pro Ala Glu Val Ser
 180 185 190
 Ser Arg Leu Gln His Arg Leu Thr Asp Met Gly Val His Leu Leu Leu
 195 200 205
 Lys Ser Gln Leu Gln Ser Leu Ser Lys Thr Glu Thr Gly Ile Cys Ala
 210 215 220
 Thr Leu Asp Arg Asn Arg Ser Val Glu Val Asp Val Val Ile Ala Ala
 225 230 235 240
 Thr Gly Leu Arg Pro Glu Thr Ala Leu Ala His Arg Ala Gly Ala Glu
 245 250 255
 Ile Asn Arg Gly Val Lys Val Asp Ser Tyr Leu Gln Thr Thr Gln Pro
 260 265 270
 Asp Ile Tyr Ala Leu Gly Asp Cys Ala Glu Ile Asn Gly Gln Val Leu
 275 280 285
 Pro Phe Leu Gln Pro Ile Gln Leu Ser Ala Met Phe Leu Ala Lys Asn
 290 295 300
 Leu Leu Gly Gly Asn Ala Pro Val Lys Leu Pro Ala Met Leu Val Lys
 305 310 315 320
 Val Lys Thr Pro Glu Leu Pro Leu His Leu Ala Gly Glu Thr Gln Arg
 325 330 335
 Gln Asp Leu Asp Trp Gln Ile Ala Leu Ser Pro Gln Gly Met Val Ala
 340 345 350
 Arg Gly Thr Asp Thr Ala Gly Gln Met Arg Ala Phe Val Val Ser Glu
 355 360 365
 Asp Arg Met Lys Glu Ala Phe Ala Leu Leu Lys Ser Leu Pro Ala
 370 375 380

<210> 9692

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9692

His Pro Arg Arg Arg Ala Ala Ser Arg Ser Pro Pro Asp Thr Leu Pro
 1 5 10 15
 His Ala His Asp Asp Ala Ala Arg Ser Gln Arg Ala Ala Leu Ala Ser
 20 25 30
 Gly Pro Thr Val Gly Arg Asp Ile Pro Asp Gly His Arg Thr Pro His

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<210> 9693
<211> 338
<212> PRT
<213> Enterobacter cloacae
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Ser 1	Met	Asn	Thr	Val 5	Glu	Met	Ala	His	Gly 10	Ser	Gly	Gly	Gln	Ala 15	Met
Gln	Gln	Leu	Ile	Asn	Arg	Leu	Phe	Met	Asp	Ala	Phe	Asp	Asn	Pro	Trp
			20					25					30		
Leu	Ala	Glu	Gln	Glu	Asp	Gln	Ala	Arg	Ile	Ala	Leu	Ser	Thr	Leu	Thr
		35					40					45			
Ala	His	Gly	Asp	Arg	Leu	Ala	Phe	Ser	Thr	Asp	Ser	Tyr	Val	Ile	Asp
	50					55					60				
Pro	Leu	Phe	Phe	Pro	Gly	Gly	Asp	Ile	Gly	Lys	Leu	Ala	Val	Cys	Gly
65					70				75					80	
Thr	Ala	Asn	Asp	Val	Ala	Val	Ser	Gly	Ala	Ile	Pro	Arg	Tyr	Leu	Ser
				85					90					95	
Cys	Gly	Phe	Ile	Leu	Glu	Glu	Gly	Leu	Pro	Met	Glu	Thr	Leu	Thr	Ala
			100					105					110		
Val	Val	Asn	Ser	Met	Ala	His	Thr	Ala	Arg	Glu	Ala	Gly	Ile	Ala	Ile
		115					120					125			
Val	Thr	Gly	Asp	Thr	Lys	Val	Val	Gln	Arg	Gly	Ala	Ala	Asp	Lys	Leu
	130					135					140				
Phe	Ile	Asn	Thr	Ala	Gly	Met	Gly	Ala	Ile	Pro	Ala	Asp	Ile	His	Trp
145					150					155				160	
Gly	Ala	Gln	Gln	Leu	Cys	Ala	Gly	Asp	Val	Leu	Ile	Val	Ser	Gly	Thr
				165					170					175	
Leu	Gly	Cys	His	Gly	Ala	Thr	Ile	Leu	Asn	Leu	Arg	Glu	Gly	Leu	Arg
			180					185					190		
Leu	Asp	Gly	Glu	Leu	Arg	Ser	Asp	Cys	Ala	Val	Leu	Thr	Pro	Leu	Ile
		195					200					205			
Gln	Thr	Leu	Arg	Asp	Met	Pro	Gly	Val	Lys	Ala	Leu	Arg	Asp	Ala	Thr
	210					215					220				
Arg	Gly	Gly	Val	Asn	Ala	Val	Val	His	Glu	Phe	Ala	Ala	Ser	Ser	Gly
225					230					235				240	
Cys	Gly	Ile	Glu	Leu	Thr	Glu	Arg	Gly	Leu	Pro	Val	Lys	Gly	Ala	Val
				245					250					255	
Arg	Gly	Leu	Cys	Glu	Leu	Leu	Gly	Leu	Asp	Pro	Leu	Asn	Phe	Ala	Asn
			260					265					270		
Glu	Gly	Lys	Leu	Val	Ile	Gly	Val	Glu	Arg	Thr	Ala	Ala	Glu	Ala	Val
		275					280					285			
Leu	Ala	Gln	Leu	Arg	Ala	His	Pro	Leu	Gly	Lys	Asp	Ala	Ala	Ile	Ile
	290					295					300				
Gly	Asp	Val	Val	Glu	Arg	Lys	Gly	Val	Arg	Leu	Thr	Gly	Leu	Tyr	Gly
305					310					315				320	
Val	Lys	Arg	Thr	Leu	Asp	Leu	Pro	His	Ala	Glu	Pro	Leu	Pro	Arg	Ile
				325					330					335	

Cys

<210> 9694
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 9694

Val	Met	Ser	Ile	Cys	Ala	Glu	Lys	Ile	Thr	Trp	Lys	Val	Gly	Lys	Lys
1				5					10					15	
Ile	Ile	Val	Asn	His	Val	Ser	Leu	Lys	Val	Ser	Arg	Gly	Glu	Thr	Val
			20					25					30		
Gly	Leu	Leu	Gly	Pro	Asn	Gly	Cys	Gly	Lys	Ser	Ser	Leu	Leu	Arg	Ile
		35					40					45			
Leu	Ala	Gly	Leu	Arg	Arg	Pro	Asp	Ala	Gly	Cys	Val	Thr	Leu	Asp	Gly
	50					55					60				
Gln	Asp	Ile	Ala	Arg	Ile	Ala	Lys	Lys	Gln	Leu	Ala	Arg	Arg	Val	Ala
65					70					75					80
Phe	Val	Glu	Gln	His	Gly	Met	Thr	Asp	Ala	Asn	Met	Arg	Val	Arg	Asp
				85					90					95	
Val	Val	Lys	Leu	Gly	Arg	Ile	Pro	His	Ser	Pro	Phe	Ser	Asn	Trp	
			100					105					110		
Ser	Ala	Gln	Asp	Asp	Glu	Thr	Val	Thr	Ala	Ala	Leu	Gln	Arg	Val	Asp
		115					120					125			
Met	Leu	Asp	Arg	Ser	Glu	Gln	Gly	Trp	Leu	Ser	Leu	Ser	Gly	Gly	Glu
	130					135					140				
Arg	Gln	Arg	Val	His	Ile	Ala	Arg	Ala	Leu	Ala	Gln	Thr	Pro	Thr	Glu
145					150					155					160
Ile	Leu	Leu	Asp	Glu	Pro	Thr	Asn	His	Leu	Asp	Ile	His	His	Gln	Met
				165					170					175	
Gln	Leu	Met	Gln	Leu	Ile	Ser	Glu	Leu	Pro	Val	Thr	Ser	Ile	Val	Ala
			180					185					190		
Ile	His	Asp	Leu	Asn	His	Ala	Ser	Met	Phe	Cys	Asp	Ser	Leu	Ile	Val
	195						200					205			
Met	Gln	Gln	Gly	Gln	Ile	Val	Ala	Thr	Gly	Thr	Pro	Gln	Glu	Ile	Leu
	210				215						220				
Ser	Glu	Glu	Leu	Leu	Trp	Asp	Val	Phe	Arg	Val	Lys	Thr	Arg	Ile	Glu
225					230					235					240
Ile	Ser	Pro	Tyr	His	Gly	Lys	Lys	His	Ile	His	Phe	Ile	Val		
				245					250					255	

<210> 9695
 <211> 410
 <212> PRT
 <213> Enterobacter cloacae

<400> 9695

Val	Lys	Thr	Met	Pro	Leu	Arg	Thr	Ala	Thr	Thr	Leu	Trp	Pro	Pro	Val
1				5					10					15	
Leu	Leu	Gly	Ser	Gln	Phe	Val	Phe	Asn	Ile	Gly	Phe	Tyr	Ala	Val	Val
			20					25					30		
Pro	Phe	Leu	Ala	Ile	Phe	Leu	Arg	Asp	Asp	Met	Leu	Leu	Ser	Gly	Gly
		35					40					45			
Leu	Ile	Gly	Leu	Val	Leu	Gly	Leu	Arg	Thr	Phe	Ser	Gln	Gln	Gly	Met
	50					55					60				
Phe	Ile	Val	Gly	Gly	Ala	Leu	Ser	Asp	Arg	Phe	Gly	Ala	Lys	Ser	Val
65					70					75					80
Ile	Leu	Ser	Gly	Cys	Ile	Val	Arg	Val	Val	Gly	Tyr	Leu	Leu	Leu	Ala
				85					90					95	
Phe	Gly	Gln	Ser	Leu	Trp	Pro	Val	Ile	Leu	Gly	Ala	Cys	Leu	Thr	Gly
			100					105					110		

Val Gly Gly Ala Leu Phe Ser Pro Ser Ile Glu Ala Leu Leu Ala Lys
 115 120 125
 Ala Gly Thr Gln Ser Glu Ala Lys Gly Lys Arg Ser Arg Ala Glu Trp
 130 135 140
 Phe Ala Leu Phe Ala Val Cys Gly Glu Leu Gly Ala Val Leu Gly Pro
 145 150 155 160
 Val Met Gly Ala Leu Leu Thr Gly Leu Gly Phe Arg Gln Val Ala Leu
 165 170 175
 Ala Gly Ala Gly Ile Phe Ile Val Ala Leu Val Val Leu Phe Phe Cys
 180 185 190
 Leu Pro Ala Ala His Arg Ser Thr Lys Pro Leu Lys Ile Leu Pro Trp
 195 200 205
 Trp Thr Thr Phe Arg Gln Pro Arg Phe Val Ala Phe Ile Ile Ala Tyr
 210 215 220
 Ser Ser Trp Leu Leu Ser Tyr Asn Gln Leu Tyr Leu Ala Leu Pro Val
 225 230 235 240
 Glu Ile Gln Arg Ala Gly Gly Asn Glu Lys Asp Leu Gly Pro Leu Phe
 245 250 255
 Met Leu Ala Ser Val Leu Ile Ile Val Leu Gln Leu Pro Leu Ala Arg
 260 265 270
 Phe Ala Arg Asn Val Gly Ala Val Arg Ile Leu Pro Val Gly Phe Leu
 275 280 285
 Leu Leu Ser Ala Ser Phe Ala Ser Val Ala Leu Phe Ala Ala Thr Glu
 290 295 300
 Pro Pro Glu Gly Trp Leu Arg Leu Leu Pro Ser Ala Ser Leu Val Thr
 305 310 315 320
 Leu Leu Thr Leu Gly Gln Met Leu Leu Val Pro Ser Ala Lys Asp Leu
 325 330 335
 Ile Pro Arg Phe Ala Glu Glu Ser Thr Leu Gly Ala His Tyr Gly Ala
 340 345 350
 Leu Ser Thr Ala Gly Gly Ile Ala Val Leu Val Gly Asn Leu Gly Leu
 355 360 365
 Gly Ser Leu Leu Asp Lys Ala Leu Val Pro Ser Thr Glu Ala Ile Tyr
 370 375 380
 Pro Trp Leu Leu Leu Ala Val Phe Pro Leu Cys Ser Ala Val Ala Leu
 385 390 395 400
 Ser Val Ile Cys Arg Pro Leu Arg Arg
 405 410

<210> 9696

<211> 861

<212> PRT

<213> Enterobacter cloacae

<400> 9696

Glu His Gly His Gln Asp Phe Met Ser Thr Leu Glu Asn Phe Asp Ala
 1 5 10 15
 His Thr Pro Met Met Gln Gln Tyr Leu Lys Leu Lys Ala Gln His Pro
 20 25 30
 Glu Ile Leu Leu Phe Tyr Arg Met Gly Asp Phe Tyr Glu Leu Phe Tyr
 35 40 45
 Asp Asp Ala Lys Arg Ala Ser Gln Leu Leu Asp Ile Ser Leu Thr Lys
 50 55 60
 Arg Gly Ala Ser Ala Gly Glu Pro Ile Pro Met Ala Gly Ile Pro His
 65 70 75 80
 His Ala Val Glu Asn Tyr Leu Ala Lys Leu Val Asn Gln Gly Glu Ser
 85 90 95
 Val Ala Ile Cys Glu Gln Ile Gly Asp Pro Ala Thr Ser Lys Gly Pro
 100 105 110
 Val Glu Arg Lys Val Val Arg Ile Val Thr Pro Gly Thr Ile Ser Asp
 115 120 125

Glu	Ala	Leu	Leu	Gln	Glu	Arg	Gln	Asp	Asn	Leu	Leu	Ala	Ala	Ile	Trp
	130					135				140					
Gln	Asp	Gly	Lys	Gly	Phe	Gly	Tyr	Ala	Thr	Leu	Asp	Ile	Ser	Ser	Gly
145					150					155					160
Arg	Phe	Arg	Leu	Ser	Glu	Pro	Ala	Asp	Arg	Glu	Thr	Met	Ala	Ala	Glu
				165					170						175
Leu	Gln	Arg	Thr	Asn	Pro	Ala	Glu	Leu	Leu	Tyr	Ala	Glu	Asp	Phe	Ala
			180					185					190		
Glu	Met	Ala	Leu	Ile	Glu	Gly	Arg	Arg	Gly	Leu	Arg	Arg	Arg	Pro	Leu
	195						200					205			
Trp	Glu	Phe	Glu	Ile	Asp	Thr	Ala	Arg	Gln	Gln	Leu	Asn	Leu	Gln	Phe
	210					215					220				
Gly	Thr	Arg	Asp	Leu	Ile	Gly	Phe	Gly	Val	Glu	Asn	Ala	Pro	Arg	Gly
225					230					235					240
Leu	Cys	Ala	Ala	Gly	Cys	Leu	Leu	Gln	Tyr	Val	Lys	Asp	Thr	Gln	Arg
				245					250						255
Thr	Ala	Leu	Pro	His	Ile	Arg	Ser	Ile	Thr	Met	Glu	Arg	Gln	Gln	Asp
			260					265					270		
Ser	Ile	Ile	Met	Asp	Ala	Ala	Thr	Arg	Arg	Asn	Leu	Glu	Ile	Thr	Gln
		275					280					285			
Asn	Leu	Ala	Gly	Gly	Met	Glu	Asn	Thr	Leu	Ala	Ser	Val	Leu	Asp	Ser
	290					295					300				
Thr	Val	Thr	Pro	Met	Gly	Ser	Arg	Met	Leu	Lys	Arg	Trp	Leu	His	Met
305					310					315					320
Pro	Ile	Arg	Asn	Thr	Glu	Thr	Leu	Thr	Gly	Arg	Gln	Gln	Thr	Ile	Ala
				325					330						335
Ala	Leu	Gln	Asp	Arg	Tyr	Thr	Glu	Leu	Gln	Pro	Val	Leu	Arg	Gln	Val
			340					345					350		
Gly	Asp	Leu	Glu	Arg	Ile	Leu	Ala	Arg	Leu	Ala	Leu	Arg	Thr	Ala	Arg
	355						360					365			
Pro	Arg	Asp	Leu	Ala	Arg	Met	Arg	His	Ala	Phe	Gln	Gln	Leu	Pro	Glu
	370					375					380				
Leu	Arg	Ala	Gln	Leu	Gly	Glu	Ile	Asp	Ser	Ala	Pro	Val	Gln	Lys	Leu
385					390					395					400
Arg	Glu	Thr	Met	Gly	Glu	Phe	Thr	Glu	Leu	Arg	Glu	Leu	Leu	Glu	Arg
				405					410						415
Ala	Ile	Ile	Asp	Ala	Pro	Pro	Val	Leu	Val	Arg	Asp	Gly	Gly	Val	Ile
			420					425					430		
Ala	Pro	Gly	Tyr	Asn	Glu	Glu	Leu	Asp	Glu	Trp	Arg	Ala	Leu	Ala	Asp
		435					440					445			
Gly	Ala	Thr	Asp	Tyr	Leu	Asp	Lys	Leu	Glu	Ile	Arg	Glu	Arg	Glu	Arg
	450					455					460				
Leu	Gly	Leu	Asp	Thr	Leu	Lys	Val	Gly	Tyr	Asn	Ala	Val	His	Gly	Tyr
465					470					475					480
Tyr	Ile	Gln	Ile	Ser	Arg	Gly	Gln	Ser	His	Leu	Ala	Pro	Ile	His	Tyr
				485					490						495
Val	Arg	Arg	Gln	Thr	Leu	Lys	Asn	Ala	Glu	Arg	Tyr	Ile	Ile	Pro	Glu
			500					505					510		
Leu	Lys	Glu	Tyr	Glu	Asp	Lys	Val	Leu	Thr	Ser	Lys	Gly	Lys	Ala	Leu
		515					520					525			
Ala	Leu	Glu	Lys	Gln	Leu	Tyr	Asp	Glu	Leu	Phe	Asp	Ile	Leu	Met	Pro
		530				535					540				
His	Leu	Ala	Asp	Leu	Gln	Leu	Ser	Ala	Ala	Ala	Leu	Ala	Glu	Leu	Asp
545					550					555					560
Val	Leu	Val	Asn	Leu	Ala	Glu	Arg	Ala	Asp	Thr	Leu	Asn	Tyr	Thr	Cys
				565					570						575
Pro	Thr	Phe	Thr	Asp	Lys	Pro	Gly	Ile	Arg	Ile	Thr	Glu	Gly	Arg	His
			580					585					590		
Pro	Val	Val	Glu	Gln	Val	Leu	Asn	Glu	Pro	Phe	Ile	Ala	Asn	Pro	Leu
		595					600					605			
Asn	Leu	Ser	Pro	Gln	Arg	Arg	Met	Leu	Ile	Ile	Thr	Gly	Pro	Asn	Met

610					615					620					
Gly	Gly	Lys	Ser	Thr	Tyr	Met	Arg	Gln	Thr	Ala	Leu	Ile	Ala	Leu	Leu
625					630					635					640
Ala	Tyr	Ile	Gly	Ser	Tyr	Val	Pro	Ala	Gln	Lys	Val	Glu	Ile	Gly	Pro
				645						650					655
Ile	Asp	Arg	Ile	Phe	Thr	Arg	Val	Gly	Ala	Ala	Asp	Asp	Leu	Ala	Ser
			660					665					670		
Gly	Arg	Ser	Thr	Phe	Met	Val	Glu	Met	Thr	Glu	Thr	Ala	Asn	Ile	Leu
		675					680					685			
His	Asn	Ala	Thr	Glu	Asn	Ser	Leu	Val	Leu	Met	Asp	Glu	Val	Gly	Arg
	690					695					700				
Gly	Thr	Ser	Thr	Tyr	Asp	Gly	Leu	Ser	Leu	Ala	Trp	Ala	Cys	Ala	Glu
705				710						715					720
Ser	Leu	Ala	Asn	Lys	Ile	Lys	Ala	Leu	Thr	Leu	Phe	Ala	Thr	His	Tyr
			725						730					735	
Phe	Glu	Leu	Thr	Gln	Leu	Pro	Glu	Lys	Met	Glu	Gly	Val	Ala	Asn	Val
			740					745					750		
His	Leu	Asp	Ala	Leu	Glu	His	Gly	Asp	Thr	Ile	Ala	Phe	Met	His	Thr
		755					760					765			
Val	Gln	Asp	Gly	Ala	Ala	Ser	Lys	Ser	Tyr	Gly	Leu	Ala	Val	Ala	Ala
	770					775					780				
Leu	Ala	Gly	Val	Pro	Lys	Glu	Val	Ile	Lys	Arg	Ala	Arg	Gln	Lys	Leu
785				790						795					800
Arg	Glu	Leu	Glu	Ser	Leu	Ser	Pro	Asn	Ala	Ala	Ala	Thr	Gln	Ile	Asp
			805					810						815	
Gly	Thr	Gln	Met	Ser	Leu	Leu	Ala	Val	Pro	Glu	Glu	Thr	Ser	Pro	Ala
			820					825					830		
Val	Glu	Ala	Leu	Glu	Asn	Leu	Asp	Pro	Asp	Ser	Leu	Thr	Pro	Arg	Gln
	835						840					845			
Ala	Leu	Glu	Trp	Ile	Tyr	Arg	Leu	Lys	Ser	Leu	Val				
	850					855					860				

<210> 9697

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 9697

Phe	Ser	Ala	Val	Phe	Cys	Arg	Val	Ala	Ala	Ser	Pro	Tyr	Pro	Ala	Tyr
1			5						10					15	
Lys	Thr	Arg	Arg	Thr	Gly	Lys	Arg	Ser	Ala	Thr	Gly	Leu	Phe	Leu	Gln
			20					25				30			
Gln	Arg	Arg	Asp	Arg	Arg	His	Leu	Arg	Cys	Phe	Ile	Asn	Ile	Leu	Leu
		35					40					45			
Arg	His	Ala	Glu	Arg	Phe	Arg	Val	Met	Leu	Ala	Ala	Gly	Thr	Ala	Gln
	50					55					60				
Arg	Phe	Gly	Ile	Ala	Pro	Gly	Ile	Gln	Thr	Val	Leu	Thr	Leu	Ile	Tyr
65				70						75					80
Arg	Pro	Asp	Thr	Phe	His	Arg									
				85											

<210> 9698

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 9698

Thr	Lys	Thr	Asn	Ala	Leu	Gln	Glu	Arg	Arg	Met	Ile	Glu	Thr	Ile	Thr
1			5						10					15	
His	Gly	Ala	Glu	Trp	Phe	Ile	Gly	Leu	Phe	Gln	Lys	Gly	Gly	Glu	Val
			20					25					30		

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<210> 9699
<211> 326
<212> PRT
<213> Enterobacter cloacae
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Pro 1	Glu	Arg	Lys	Met 5	Ser	Asp	Phe	Leu	Leu 10	Asn	Ala	Gly	Arg	Gln 15	Thr
Leu	Leu	Leu	Glu 20	Leu	Gln	Glu	Ala	Ser 25	Arg	Leu	Pro	Glu	Arg 30	Leu	Gly
Glu	Asp	Phe 35	Val	Arg	Ala	Ala	Asn 40	Thr	Ile	Ile	His	Cys 45	Glu	Gly	Lys
Val	Ile 50	Val	Ala	Gly	Ile	Gly 55	Lys	Ser	Gly	His	Ile 60	Gly	Lys	Lys	Ile
Ala 65	Ala	Thr	Leu	Ala	Ser 70	Thr	Gly	Thr	Pro	Ala 75	Phe	Phe	Val	His	Pro 80
Ala	Glu	Ala	Leu 85	His	Gly	Asp	Leu	Gly 90	Met	Ile	Glu	Ser	Arg 95	Asp	Val
Met	Leu	Phe 100	Ile	Ser	Tyr	Ser	Gly	Ser 105	Ala	Lys	Glu	Leu	Asp 110	Leu	Ile
Ile	Pro	Arg 115	Leu	Gln	Glu	Lys	Ser 120	Val	Ala	Leu	Leu	Ala 125	Met	Thr	Gly
Lys	Ser 130	Arg	Ser	Pro	Leu	Ala 135	Leu	Ala	Ala	Lys	Ala 140	Thr	Leu	Asp	Ile
Ser 145	Val	Glu	Arg	Glu 150	Ala	Cys	Pro	Met	His 155	Leu	Ala	Pro	Thr	Ser	Ser 160
Thr	Val	Asn	Thr 165	Leu	Met	Met	Gly	Asp 170	Ala	Leu	Ala	Met	Ala 175	Val	Met
Gln	Ala	Arg 180	Gly	Phe	Asn	Glu	Glu 185	Asp	Phe	Ala	Arg	Ser 190	His	Pro	Ala
Gly	Ala 195	Leu	Gly	Ala	Arg	Leu	Leu 200	Asn	Lys	Val	His	His 205	Leu	Met	Arg
Thr	Asp 210	Asp	Ala	Ile	Pro	Gln 215	Val	Lys	Leu	Asp 220	Thr	Ser	Val	Met	Asp
Ala 225	Met	Leu	Glu	Leu 230	Ser	Arg	Thr	Gly	Leu	Gly 235	Leu	Val	Ala	Val	Cys 240
Asp	Asn	Asp	Arg 245	Gln	Val	Lys	Gly	Val 250	Phe	Thr	Asp	Gly	Asp 255	Leu	Arg

Arg Trp Leu Val Gly Gly Gly Lys Leu Glu Ala Arg Val Ser Glu Ala
 260 265 270
 Met Thr Gln Gly Gly Leu Thr Leu Asn Ala Asp Ser Arg Ala Ile Glu
 275 280 285
 Ala Lys Glu Val Leu Met Lys Arg Lys Ile Thr Ala Ala Pro Val Val
 290 295 300
 Asp Glu His Gly Arg Leu Cys Gly Ala Ile Asn Leu Gln Asp Phe Tyr
 305 310 315 320
 Gln Ala Gly Ile Ile
 325

<210> 9700

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 9700

Val Glu Val Ala Met Ser Ile Leu Val Lys Asn Asn Ile His Trp Val
 1 5 10 15
 Gly Gln Arg Asp Trp Glu Val Arg Asp Phe His Gly Thr Glu Tyr Lys
 20 25 30
 Thr Leu Arg Gly Ser Ser Tyr Asn Ser Tyr Leu Ile Arg Glu Gly Lys
 35 40 45
 Asn Val Leu Ile Asp Thr Val Asp His Lys Phe Ser Arg Glu Phe Val
 50 55 60
 Gln Asn Leu Arg Ser Glu Ile Asp Leu Asn Glu Ile Asp Tyr Ile Ile
 65 70 75 80
 Ile Asn His Ala Glu Glu Asp His Ala Gly Ala Leu Thr Glu Leu Met
 85 90 95
 Ser His Ile Pro Asp Thr Pro Ile Tyr Cys Thr Thr Asn Ala Ile Asp
 100 105 110
 Ser Ile Asn Gly His His His His Pro Glu Trp Asn Phe His Thr Val
 115 120 125
 Lys Thr Gly Asp Thr Leu Asp Ile Gly Asn Gly Lys Gln Leu Ile Phe
 130 135 140
 Val Glu Thr Pro Met Leu His Trp Pro Asp Ser Met Met Thr Tyr Met
 145 150 155 160
 Thr Gly Asp Ala Val Leu Phe Ser Asn Asp Ala Phe Gly Gln His Tyr
 165 170 175
 Cys Asp Glu Arg Leu Phe Asn Asp Glu Val Asp Gln Thr Glu Leu Phe
 180 185 190
 Glu Gln Cys Gln Arg Tyr Tyr Ala Asn Ile Leu Thr Pro Phe Ser Arg
 195 200 205
 Leu Val Thr Pro Lys Ile Thr Glu Ile Leu Gly Phe Asn Leu Pro Val
 210 215 220
 Asp Met Ile Ala Thr Ser His Gly Val Val Trp Arg Glu Asn Pro Thr
 225 230 235 240
 Gln Ile Val Glu Leu Tyr Leu Lys Trp Ala Ala Asp Tyr Gln Glu Asp
 245 250 255
 Arg Ile Thr Ile Phe Tyr Asp Thr Met Ser Asn Asn Thr Arg Met Met
 260 265 270
 Ala Asp Ala Ile Ala Gln Gly Ile Asn Glu Val Asp Pro Asn Val Ala
 275 280 285
 Val Lys Ile Phe Asn Val Ala Arg Ser Asp Lys Asn Glu Val Leu Thr
 290 295 300
 Asn Val Phe Arg Ser Lys Gly Val Leu Val Gly Thr Ser Thr Met Asn
 305 310 315 320
 Asn Val Met Met Pro Lys Ile Ala Gly Leu Val Glu Glu Met Thr Gly
 325 330 335
 Leu Arg Phe Arg Asn Lys Arg Ala Ser Ala Phe Gly Ser His Gly Trp
 340 345 350

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<210> 9701
<211> 499
<212> PRT
<213> Enterobacter cloacae
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Asn	Arg	Phe	Pro	Thr	Leu	Leu	Thr	Thr	Ile	Thr	Gly	Ser	His	Pro	Met
1				5					10					15	
Ala	Lys	Asn	Tyr	Ala	Ala	Leu	Ala	Asn	Asp	Val	Val	Ser	Ala	Leu	Gly
			20					25					30		
Gly	Lys	Glu	Asn	Ile	Val	Ala	Val	Thr	His	Cys	Met	Thr	Arg	Leu	Arg
		35					40					45			
Phe	Val	Leu	Lys	Asp	Glu	Ser	Leu	Thr	Asp	Thr	Ala	Arg	Leu	Lys	Ser
	50					55					60				
Ile	Ser	Gly	Val	Leu	Gly	Val	Val	Arg	Asn	Asp	Asn	Gln	Cys	Gln	Val
65					70					75					80
Ile	Ile	Gly	Asn	Thr	Val	Ser	Gln	Ala	Tyr	Arg	Glu	Val	Val	Ser	Leu
				85					90					95	
Leu	Pro	Ala	Asn	Leu	Gln	Pro	Ala	Val	Ala	Glu	Gly	Pro	Gln	Lys	Leu
			100					105					110		
Thr	Leu	Arg	Arg	Ile	Gly	Ala	Gly	Ile	Leu	Asp	Ala	Leu	Ile	Gly	Thr
		115					120					125			
Met	Ser	Pro	Leu	Ile	Pro	Ala	Ile	Ile	Gly	Glu	Ser	Met	Val	Lys	Leu
	130					135					140				
Leu	Ala	Met	Ile	Leu	Glu	Met	Thr	Gly	Val	Leu	Gly	Lys	Gly	Asp	Pro
145					150					155				160	
Thr	Leu	Thr	Ile	Leu	Thr	Val	Ile	Gly	Asp	Gly	Ala	Phe	Phe	Phe	Leu
				165					170					175	
Pro	Leu	Met	Val	Ala	Ala	Ser	Ala	Ala	Val	Lys	Phe	Lys	Thr	Asn	Met
			180					185					190		
Ser	Leu	Ala	Ile	Ala	Ile	Ala	Gly	Val	Leu	Val	His	Pro	Ser	Phe	Ile
		195					200					205			
Glu	Leu	Met	Ala	Lys	Ala	Ala	Gln	Gly	Glu	His	Val	Glu	Phe	Ala	Phe
	210					215					220				
Ile	Pro	Val	Thr	Ala	Val	Lys	Tyr	Thr	Tyr	Thr	Val	Ile	Pro	Ala	Leu
225					230					235				240	
Val	Met	Thr	Trp	Cys	Leu	Ser	Tyr	Ile	Glu	Arg	Trp	Val	Asp	Arg	Ile
				245					250					255	
Thr	Pro	Ala	Val	Thr	Lys	Asn	Phe	Leu	Lys	Pro	Met	Leu	Ile	Val	Leu
			260					265					270		
Ile	Ala	Ala	Pro	Leu	Ala	Ile	Val	Leu	Ile	Gly	Pro	Leu	Gly	Ile	Trp
		275					280					285			

Ile Gly Ser Ala Ile Ser Ala Leu Val Tyr Thr Ile His Gly Tyr Leu
 290 295 300
 Gly Trp Leu Ser Val Ala Ile Met Gly Ala Leu Trp Pro Leu Leu Val
 305 310 315 320
 Met Thr Gly Met His Arg Val Phe Thr Pro Thr Ile Ile Gln Thr Ile
 325 330 335
 Ala Glu Thr Gly Lys Glu Gly Met Val Met Pro Ser Glu Ile Gly Ala
 340 345 350
 Asn Leu Ser Leu Gly Gly Ser Ser Leu Ala Val Ala Trp Lys Thr Lys
 355 360 365
 Asn Pro Glu Leu Arg Gln Thr Ala Leu Ala Ala Ala Ser Ala Ile
 370 375 380
 Met Ala Gly Ile Ser Glu Pro Ala Leu Tyr Gly Val Ala Val Arg Leu
 385 390 395 400
 Lys Arg Pro Leu Ile Ala Ser Leu Ile Ser Gly Phe Ile Cys Gly Ala
 405 410 415
 Val Ala Gly Met Ala Gly Leu Ala Ser His Ser Met Ala Ala Pro Gly
 420 425 430
 Leu Phe Thr Ser Val Gln Phe Phe Asp Pro Ala Asn Pro Met Thr Ile
 435 440 445
 Val Trp Val Phe Gly Val Met Gly Leu Ala Val Val Leu Ser Phe Val
 450 455 460
 Leu Thr Leu Leu Leu Gly Phe Glu Asp Ile Pro Val Glu Asp Glu Ala
 465 470 475 480
 Glu Lys Ala Arg Ala Leu Gln Thr Ala Pro Val Gln Asn Lys Ala Ala
 485 490 495
 Glu Ala

<210> 9702

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 9702

Thr Glu Ser Glu Val Arg Met Ser Val Phe Pro Gln Gly Phe Leu Trp
 1 5 10 15
 Gly Gly Ala Leu Ala Ala Asn Gln Ser Glu Gly Ala Tyr Arg Glu Gly
 20 25 30
 Gly Lys Gly Leu Thr Thr Val Asp Met Ile Pro His Gly Ala Asn Arg
 35 40 45
 Leu Ala Val Lys Val Gly Lys Glu Lys Arg Phe Ser Leu Arg Asp Asp
 50 55 60
 Glu Phe Tyr Pro Ser His Glu Ala Ile Asp Phe Tyr His Arg Tyr Lys
 65 70 75 80
 Glu Asp Ile Ala Leu Met Ala Glu Met Gly Phe Thr Val Phe Arg Thr
 85 90 95
 Ser Ile Ala Trp Ser Arg Leu Tyr Pro Asn Gly Asp Glu Pro Leu Pro
 100 105 110
 Asn Gln Glu Gly Ile Ala Phe Tyr Arg Ala Val Phe Glu Glu Cys Lys
 115 120 125
 Lys Tyr Asn Ile Glu Pro Leu Val Thr Leu Cys His Phe Asp Val Pro
 130 135 140
 Met His Leu Val Thr Glu Tyr Gly Ser Trp Arg Asn Arg Lys Met Val
 145 150 155 160
 Asp Phe Phe Ala Arg Tyr Ala Arg Thr Cys Phe Glu Ala Phe Asn Gly
 165 170 175
 Leu Val Lys Tyr Trp Leu Thr Phe Asn Glu Ile Asn Ile Met Leu His
 180 185 190
 Ser Pro Phe Ser Gly Ala Gly Leu Val Phe Glu Glu Gly Glu Asn Glu
 195 200 205

```

Asp Gln Val Lys Tyr Gln Ala Ala His His Glu Leu Val Ala Ser Ala
 210          215          220
Leu Ala Thr Lys Ile Ala His Glu Val Asn Pro Glu Asn Gln Val Gly
225          230          235          240
Cys Met Leu Ala Gly Asn Phe Tyr Pro Tyr Ser Cys Lys Pro Glu
          245          250          255
Asp Val Trp Met Ala Leu Glu Lys Asp Arg Glu Asn Leu Phe Phe Ile
          260          265          270
Asp Val Gln Ala Arg Gly Ser Tyr Pro Ala Tyr Ser Ala Arg Val Phe
          275          280          285
Arg Glu Lys Gly Val Val Ile Val Lys Asp Pro Gly Asp Asp Glu Leu
          290          295          300
Leu Lys Asn Thr Val Asp Phe Val Ser Phe Ser Tyr Tyr Ala Ser Arg
305          310          315          320
Cys Ala Ser Ala Asp Met Asn Ala Gly Asn Thr Ser Ala Ala Asn Ile
          325          330          335
Val Lys Ser Leu Arg Asn Pro His Ile Gln Val Ser Glu Trp Gly Trp
          340          345          350
Gly Ile Asp Pro Leu Gly Leu Arg Ile Thr Met Asn Met Met Tyr Asp
          355          360          365
Arg Tyr Gln Lys Pro Leu Phe Leu Val Glu Asn Gly Leu Gly Ala Lys
          370          375          380
Asp Val Val Asp Glu Asn Gly Glu Ile Asn Asp Asp Tyr Arg Ile Ser
385          390          395          400
Tyr Leu Arg Glu His Ile Arg Ala Met Gly Asp Ala Ile Glu Asp Gly
          405          410          415
Val Pro Leu Leu Gly Tyr Thr Thr Trp Gly Cys Ile Asp Leu Val Ser
          420          425          430
Ala Ser Thr Gly Glu Met Ser Lys Arg Tyr Gly Phe Val Tyr Val Asp
          435          440          445
Arg Asp Asp Ala Gly Asn Gly Thr Leu Glu Arg Lys Arg Lys Lys Ser
          450          455          460
Phe Gly Trp Tyr Lys Lys Val Ile Ala Ser Asn Gly Gly Asp Leu Glu
465          470          475          480

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<210> 9703

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 9703

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Ser Ser Pro Gln Ser Ala Thr Pro Arg Pro Thr Thr Ala Ala Ala Asp
 1          5          10          15
Arg Pro Ser Gly Leu Ser Ser Gly Cys Arg Lys Asp Arg Pro Ser Ser
          20          25          30
Pro Arg Trp Arg Thr Ala Gln Arg Pro Gly Leu Arg His Trp His Ala
          35          40          45
Pro Ala Ala Pro Ser Arg Ala Ala Gly Leu Ser Arg Pro Ala Gly Gln
          50          55          60
Asn Arg Leu Arg Pro Thr Ala Arg Arg Arg Cys Pro Ala Ala Gly Arg
65          70          75          80

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<210> 9704

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9704

Asp Pro Ala Gly Phe Arg His Ala Arg Arg Arg Asp Gly Arg Leu Ala
 1 5 10 15
 Glu Leu Ala Gly Glu Arg Thr Met Cys Ile Gly Val Pro Gly Gln Ile
 20 25 30
 His Ser Ile Asp Gly Asn Gln Ala Lys Val Glu Val Cys Gly Ile Leu
 35 40 45
 Arg Asp Val Asp Leu Thr Leu Val Gly Ser His Asp Glu Thr Gly Ala
 50 55 60
 Ser Arg Leu Gly Gln Trp Val Leu Val His Val Gly Phe Ala Met Ser
 65 70 75 80
 Val Ile Asn Glu Glu Ala Arg Asp Thr Leu Asp Ala Leu Gln Asn
 85 90 95
 Met Phe Asp Val Glu Pro Asp Val Gly Ala Leu Leu Tyr Gly Glu Glu
 100 105 110
 Arg

<210> 9705

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9705

His Met Arg Tyr Val Asp Glu Tyr Arg Ala Pro Glu Gln Val Leu Gln
 1 5 10 15
 Leu Ile Asp Arg Leu Lys Ser Arg Ala Ser Leu Leu Asp Tyr Thr Lys
 20 25 30
 Glu Lys Pro Leu Arg Ile Met Glu Val Cys Gly Gly His Thr His Ala
 35 40 45
 Ile Phe Lys Phe Gly Leu Asp Gln Leu Leu Pro Glu Asn Ile Glu Phe
 50 55 60
 Ile His Gly Pro Gly Cys Pro Val Cys Val Leu Pro Met Gly Arg Ile
 65 70 75 80
 Asp Ser Cys Leu Asp Ile Ala Ser Arg Pro Gly Val Ile Phe Cys Thr
 85 90 95
 Phe Gly Asp Ala Met Arg Val Pro Gly Lys Asn Gly Ser Leu Leu Gln
 100 105 110
 Ala Lys Ala Arg Gly Ala Asp Val Arg Ile Val Tyr Ser Pro Met Asp
 115 120 125
 Ala Leu Thr Leu Ala Met Ala Asn Pro Glu Arg Lys Val Val Phe Phe
 130 135 140
 Gly Leu Gly Phe Glu Thr Thr Met Pro Ala Thr Ala Ile Thr Leu Gln
 145 150 155 160
 Gln Ala Lys Ala Arg Asn Val Thr Asn Phe Tyr Phe Phe Cys Gln His
 165 170 175
 Ile Thr Leu Ile Pro Thr Leu Arg Ser Leu Leu Glu Ala Pro Asp Asn
 180 185 190
 Gly Ile Asp Ala Phe Leu Ala Pro Gly His Val Ser Met Val Ile Gly
 195 200 205
 Thr Glu Ala Tyr Gly Phe Ile Ala Glu Gln Tyr Asn Arg Pro Leu Val
 210 215 220
 Val Ala Gly Phe Glu Pro Leu Asp Leu Leu Gln Gly Val Thr Met Leu
 225 230 235 240
 Val Glu Gln Lys Ile Ala Ala Leu Ser Ala Val Glu Asn Gln Tyr Arg
 245 250 255
 Arg Val Val Pro Asp Ala Gly Asn Arg Arg Ala Gln Glu Ala Ile Ala
 260 265 270
 Asp Val Phe Ser Val Glu Gly Asp Ser Glu Trp Arg Gly Leu Gly Leu
 275 280 285
 Ile Ala Glu Ser Gly Val His Leu Thr Pro Ala Tyr Arg Ala Phe Asp

290 295 300
 Ala Glu Ala His Phe Arg Pro Gln Pro Gln Gln Val Cys Asp Asp Pro
 305 310 315 320
 Arg Ala Arg Cys Gly Asp Val Leu Thr Gly Lys Cys Lys Pro His His
 325 330 335
 Cys Pro Leu Phe Gly Asn Ala Cys Asn Pro Gln Thr Ala Phe Gly Ala
 340 345 350
 Leu Met Val Ser Ser Glu Gly Ala Cys Ala Ala Trp Tyr His Tyr Arg
 355 360 365
 Asn Gln Glu Cys Glu Ala
 370 375

<210> 9706

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9706

Arg Leu Met Lys Lys Val Leu Cys Ala Leu Gly Leu Ala Val Ala Ser
 1 5 10 15
 Met Ser Thr Ala Leu Ala Thr Thr Tyr Pro Leu Thr Ile Glu Asn Cys
 20 25 30
 Gly Tyr Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg Val Val Ala Leu
 35 40 45
 Gly Gln Asn Thr Val Glu Ile Leu Leu Leu Gly Leu Glu Asp Lys
 50 55 60
 Val Lys Ala Ser Ala Phe Trp Pro Thr Lys Val Leu Pro Gln Leu Ala
 65 70 75 80
 Glu Gln Asn Ala Lys Ile Lys Thr Leu Thr Val Glu Ile Pro Thr Leu
 85 90 95
 Glu Ser Ile Leu Ala Gln Asn Pro Asp Phe Val Pro Ala Gln Leu Pro
 100 105 110
 Leu Leu Leu Gly Pro Glu Ser Lys Val Ala Lys Arg Glu Asp Leu Ala
 115 120 125
 Thr Val Gly Val Asn Ser Tyr Leu Ser Pro Gly Met Cys Ala Thr Lys
 130 135 140
 Lys Ala Ala Gly Asp Met Tyr Gly Ser Arg Gln Thr Leu Trp Asp Met
 145 150 155 160
 Thr Tyr Leu Tyr Gln Glu Ile Glu Asp Phe Ala Lys Ile Phe Asn Val
 165 170 175
 Glu Ala Arg Gly Gln Ala Val Ile Ala Asp Phe Lys Lys Arg Glu Ala
 180 185 190
 Asp Leu Arg Gln Glu Phe Gly Lys Asn Asn Lys Asp Leu Ser Phe Val
 195 200 205
 Phe Trp Phe Ser Ser Ser Ser Pro Ser Ala Asp Ala Tyr Val Gly Gly
 210 215 220
 Lys Asn Ser Ala Ser Gly Phe Ile Ala Asn Val Leu Gly Gly His Asn
 225 230 235 240
 Ala Ile Thr Ser Glu Thr Glu Trp Pro Thr Val Gly Trp Glu Ser Ile
 245 250 255
 Ile Ala Ala Asn Pro Asp Val Ile Val Val Ser Ser Leu Asp Arg Asn
 260 265 270
 Arg Trp Ala Leu Asp Asn Ala Glu Glu Lys Ile Lys Phe Leu Lys Ser
 275 280 285
 Asp Pro Ala Val Ser Gln Met Glu Ala Val Lys Lys Gly His Ile Val
 290 295 300
 Val Met Asp Gly Gln Ala Met Asn Pro Thr Ile Arg Thr Leu Tyr Gly
 305 310 315 320
 Ala Glu Gln Val Gly Glu Gln Ile Arg Lys Leu Gly Leu Asp
 325 330 335

<210> 9707
 <211> 249
 <212> PRT
 <213> Enterobacter cloacae

<400> 9707

```

Arg Met His Trp Arg Asn Leu Thr Cys Ser Ala Cys Arg Arg Glu Arg
1      5      10      15
Gln Pro Gly Arg Cys Gln Ser Ser Tyr Trp Val Ser Ala Pro Gly Ala
20      25      30
Val Ser Leu Ser Ala Gly Ala Phe Ala Gly Ala Phe Ala Ala Phe Ala
35      40      45
Phe Val Ala Phe Leu Thr Asn Gly Ala Arg Gly Gly Asn Glu Arg Thr
50      55      60
Ile Leu Ala Gly Val Ala Ala Ser Gln Leu Phe Asn Ala Ile Thr Ala
65      70      75      80
Tyr Thr Ile Ser Thr Ser Ala Ser Ala Gln Gln Ala Arg Asp Val Met
85      90      95
Phe Trp Leu Leu Gly Ser Phe Ser Gly Val Arg Trp Pro Glu Phe Gln
100     105     110
Leu Ala Leu Val Val Val Leu Ala Gly Leu Ala Val Cys Leu Tyr Tyr
115     120     125
Ser Arg Ala Leu Asp Ala Phe Thr Phe Gly Asp Asp Ala Ala Ala Ser
130     135     140
Leu Gly Ile Ala Val Pro Trp Val Arg Leu Ala Leu Phe Thr Thr Thr
145     150     155     160
Ala Leu Ile Thr Ala Thr Ile Val Ser Met Ala Gly Ser Ile Gly Phe
165     170     175
Val Gly Leu Val Val Pro His Val Met Arg Phe Leu Phe Gly Pro Leu
180     185     190
His Arg Thr Leu Leu Ile Ala Ser Ala Leu Ala Gly Ala Ile Leu Met
195     200     205
Val Leu Ala Asp Ile Ala Ser Arg Met Leu Ile Ala Pro Gln Ser Leu
210     215     220
Pro Val Gly Val Val Thr Ala Leu Val Gly Val Pro Phe Phe Ala Val
225     230     235     240
Ile Ile Tyr Arg Ser Arg Asn Lys
245

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<210> 9708
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 9708

```

Arg Glu Tyr Phe Ser Val Gly Val Ser Met Glu Leu Arg Gln Glu Ala
1      5      10      15
Phe His Leu Leu Arg Gln Leu Phe Gln Gln His Thr Ala Gln Trp Gln
20      25      30
His Ala Leu Pro Glu Leu Thr Lys Pro Gln Tyr Ala Val Met Arg Ser
35      40      45
Ile Ala Glu Asn Pro Gly Ile Glu Gln Val Ala Leu Thr Glu Val Ala
50      55      60
Val Ser Thr Lys Ala Thr Leu Ala Glu Met Leu Ser Arg Met Glu Ala
65      70      75      80
Arg Gly Leu Val Arg Arg Glu His Asp Pro Ala Asp Lys Arg Arg Arg
85      90      95
Phe Val Phe Leu Thr Ala Glu Gly Glu Ala Leu Leu Glu Ser Ser Lys
100     105     110
Pro Ile Gly Asn Glu Val Asp Glu Ala Phe Leu Gly Arg Leu Asn Gly
115     120     125

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Ala Glu Arg Glu Gln Phe Ser Ala Leu Ile Lys Lys Met Met Gln Gly
 130 135 140

145

<210> 9709

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 9709

Lys Leu Thr Thr Ala Phe Val Ser Pro Ile Ala Ser Ala Ala Val
 1 5 10 15
 Lys Leu Pro Val Ser Ala Thr Ala Ile Asn Ile Ala Val Arg Cys Lys
 20 25 30
 Leu Ser Ile Ala Cys Leu Val Asn Cys Gln Asn Asn Val Asp Ser Ile
 35 40 45
 Ser Cys Phe Val Ala Phe Ile Arg Asn Val Arg Ala Asp Thr Ile Arg
 50 55 60
 His Leu Thr Gly Gly Thr Ser Met Thr Tyr Arg Ser Lys Ile Ala Val
 65 70 75 80
 Val Phe Leu Leu Gly Phe Phe Leu Asp Leu Ile Asn Met Phe Ile Ala
 85 90 95
 Ser Val Ala Phe Pro Ala Met Ala Arg Ala Phe Asn Thr Thr Pro Ser
 100 105 110
 Ala Leu Ala Trp Val Ser Asn Gly Tyr Ile Ala Gly Leu Thr Leu Val
 115 120 125
 Ile Pro Phe Ser Ser Ile Leu Thr Arg Arg Val Gly Pro Lys Arg Val
 130 135 140
 Ile Leu Leu Ser Leu Leu Leu Phe Ser Ala Ala Ser Val Ala Ala Gly
 145 150 155 160
 Leu Ser Ser Ser Leu Glu Ser Leu Ile Ala Trp Arg Val Val Gln Gly
 165 170 175
 Ala Gly Gly Gly Leu Leu Ile Pro Val Gly Gln Ala Leu Thr Trp Gln
 180 185 190
 Gln Phe Lys Pro His Glu Arg Ala Arg Leu Ser Ser Ala Val Met Leu
 195 200 205
 Val Ala Leu Leu Ala Pro Ala Cys Ser Pro Ala Val Gly Gly Met Leu
 210 215 220
 Val Gln Thr Phe Ser Trp Arg Trp Ile Phe Phe Ala Thr Leu Pro Val
 225 230 235 240
 Val Ile Val Thr Phe Ala Leu Ala Cys Ala Trp Leu Lys Thr Glu Pro
 245 250 255
 Ser Pro Ile Thr Pro Thr Arg Thr Val Asn Leu Ser Leu Leu Thr Asp
 260 265 270
 Pro Leu Leu Arg Leu Ser Met Leu Ile Tyr Val Cys Val Pro Gly Ile
 275 280 285
 Phe Ile Gly Val Asn Val Thr Gly Met Tyr Tyr Leu Gln Ser Glu Ala
 290 295 300
 Asn Met Thr Pro Ala Ala Thr Gly Met Leu Met Leu Pro Trp Ser Val
 305 310 315 320
 Ala Ser Phe Leu Ala Ile Thr Ala Thr Gly Arg Tyr Phe Asn Arg Ile
 325 330 335
 Gly Pro Arg Pro Leu Val Val Ile Gly Cys Leu Leu Gln Ala Thr Gly
 340 345 350
 Ile Leu Leu Leu Val Asn Val Gly Pro Ala Met Leu Leu Pro Ala Val
 355 360 365
 Ala Phe Ala Leu Met Gly Ala Gly Gly Ser Leu Cys Ser Ser Thr Ala
 370 375 380
 Gln Ser Ser Ala Phe Leu Thr Met Arg Pro Glu Asp Met Pro Asp Ala
 385 390 395 400

Ser Ala Leu Trp Asn Leu Asn Arg Gln Leu Ser Phe Phe Ala Gly Ala
 405 410 415
 Leu Leu Leu Ala Gln Ala Leu Ser Phe Met Gln Ala Tyr Leu Ser Pro
 420 425 430
 Leu Ala Ala Trp His Gly Met Phe Val Phe Ala Ala Val Ile Thr Leu
 435 440 445
 Leu Pro Val Leu Tyr Val Tyr Arg Leu Asn Asn Thr Gln Leu Leu Ala
 450 455 460
 Gln Leu Gln Gln Glu Gln Pro
 465 470

<210> 9710

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 9710

Asn Cys Ser Leu Met Thr Ser Arg Pro Val Ala Leu Arg Leu Pro Gly
 1 5 10 15
 Leu Arg Leu Arg His Thr Thr Met Lys Ile Val Ile Ala Pro Asp Ser
 20 25 30
 Tyr Lys Glu Ser Leu Ser Ala Thr Glu Val Ala Gln Ala Ile Glu Lys
 35 40 45
 Gly Phe Arg Glu Ile Phe Pro Asp Ala His Tyr Val Ser Val Pro Val
 50 55 60
 Ala Asp Gly Gly Glu Gly Thr Val Glu Ala Met Ile Ala Ala Thr Gln
 65 70 75 80
 Gly Thr Trp Gln Gln Ala Val Val Thr Gly Pro Leu Gly Glu Lys Val
 85 90 95
 Lys Ala Ser Trp Gly Ile Ser Gly Asp Gly Thr Thr Ala Phe Ile Glu
 100 105 110
 Met Ala Ala Ser Gly Leu Val Leu Val Pro Pro Ala Gln Arg Asn
 115 120 125
 Pro Leu Val Thr Thr Ser Arg Gly Thr Gly Glu Leu Ile Leu Arg Ala
 130 135 140
 Leu Asp Lys Gly Ala Arg Asn Ile Ile Ile Gly Ile Gly Gly Ser Ala
 145 150 155 160
 Thr Asn Asp Gly Gly Ala Gly Met Met Gln Ala Leu Gly Ala Lys Phe
 165 170 175
 Thr Asp Ala Asn Gly Thr Glu Ile Gly Tyr Gly Gly Gly Ser Leu Met
 180 185 190
 Ala Leu Asn Arg Ile Asp Ile Ser Asp Leu Asp Pro Arg Leu Gln Gly
 195 200 205
 Cys Ala Ile Arg Val Ala Cys Asp Val Thr Asn Pro Leu Val Gly Glu
 210 215 220
 Ser Gly Ala Ser Arg Ile Phe Gly Pro Gln Lys Gly Ala Thr Glu Glu
 225 230 235 240
 Met Ile Leu Glu Leu Asp Ala Ser Leu Ser His Tyr Ala Glu Val Ile
 245 250 255
 Lys Lys Thr Leu Arg Ile Asp Val Asn Arg Val Pro Gly Ala Gly Ala
 260 265 270
 Ala Gly Gly Met Gly Ala Ala Leu Met Ala Phe Leu Gly Ala Glu Leu
 275 280 285
 Lys Ser Gly Ile Glu Ile Val Thr Gln Ala Leu Asn Leu Glu Glu His
 290 295 300
 Ile His Asp Cys Thr Trp Val Leu Thr Gly Glu Gly Arg Ile Asp Ser
 305 310 315 320
 Gln Ser Ile Asn Gly Lys Val Pro Val Gly Val Ala Ser Val Ala Lys
 325 330 335
 Lys Tyr His Lys Pro Val Ile Gly Ile Ala Gly Ser Leu Thr Gln Asp
 340 345 350

Val Gly Val Val His Gln Tyr Gly Ile Asp Ala Val Phe Ser Val Leu
 355 360 365
 Thr Arg Ile Gly Ser Leu Glu Glu Ala Phe Gln Gly Ala Tyr Asp Asn
 370 375 380
 Ile Tyr Arg Ala Ser Arg Asn Ile Ala Ala Thr Leu Gln Val Gly Met
 385 390 395 400
 Arg Ser Gln Gly
 405

<210> 9711

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 9711

Ser Pro His Ile Asn Asn Ser His Leu His Leu Leu Thr Arg Asn Arg
 1 5 10 15
 Trp Arg Ser Glu Ser Tyr Lys Asn Asn Gln Leu Pro Tyr Lys Ile Ser
 20 25 30
 Glu Cys Pro Met Asn Met Ala Thr Asn Ser Ser Val Ile Val Ser Asp
 35 40 45
 Ser Pro Ala Ala Arg Arg Ala Gly Met Ser Glu Ser Glu Trp Arg Glu
 50 55 60
 Ala Ile Lys Phe Asp Ser Thr Asp Thr Gly Trp Val Ile Met Ser Ile
 65 70 75 80
 Gly Met Ala Ile Gly Ala Gly Ile Val Phe Leu Pro Val Gln Val Gly
 85 90 95
 Leu Met Gly Leu Trp Val Phe Leu Leu Ser Ser Ile Ile Gly Tyr Pro
 100 105 110
 Ala Met Tyr Leu Phe Gln Arg Leu Phe Ile Asn Thr Leu Ala Glu Ser
 115 120 125
 Pro Glu Cys Lys Asp Tyr Pro Ser Val Ile Ser Gly Tyr Leu Gly Lys
 130 135 140
 Asn Trp Gly Ile Leu Leu Gly Ala Leu Tyr Phe Val Met Leu Val Ile
 145 150 155 160
 Trp Met Phe Val Tyr Ser Thr Ala Ile Thr Asn Asp Ser Ala Ser Tyr
 165 170 175
 Leu His Thr Phe Gly Val Thr Asp Gly Leu Leu Ser Glu Asn Pro Phe
 180 185 190
 Tyr Gly Leu Phe Leu Ile Cys Ile Leu Val Ala Ile Ser Ser Arg Gly
 195 200 205
 Glu Lys Leu Leu Phe Lys Val Ser Ser Leu Met Val Leu Thr Lys Leu
 210 215 220
 Phe Val Val Ala Ala Leu Gly Leu Ser Met Ile Gly Leu Trp His Leu
 225 230 235 240
 Ala Asn Val Gly Met Leu Pro Pro Met Gly Leu Leu Ile Lys Asn Ala
 245 250 255
 Ile Ile Thr Leu Pro Phe Thr Leu Thr Ser Ile Leu Phe Ile Gln Thr
 260 265 270
 Leu Ser Pro Met Val Ile Ser Tyr Arg Ser Arg Glu Lys Ser Val Glu
 275 280 285
 Val Ala Arg His Lys Ala Leu Arg Ala Met Asn Ile Ala Phe Gly Val
 290 295 300
 Leu Phe Val Thr Val Phe Phe Tyr Ala Val Ser Phe Thr Leu Ala Met
 305 310 315 320
 Gly His Asp Glu Ala Val Lys Ala Tyr Glu Gln Asn Ile Ser Ala Leu
 325 330 335
 Ala Ile Ala Ala Gln Phe Ile Ser Gly Asp Gly Ala Gly Trp Val Lys
 340 345 350
 Ile Val Ser Val Ile Leu Asn Ile Phe Ala Val Met Thr Ala Phe Phe
 355 360 365

Gly	Val	Tyr	Leu	Gly	Phe	Arg	Glu	Ala	Thr	Gln	Gly	Ile	Val	Met	Asn
	370					375					380				
Ile	Leu	Arg	Arg	Lys	Met	Pro	Ala	Glu	Lys	Ile	Asn	Glu	Asn	Ala	Val
385					390					395					400
Gln	Arg	Gly	Ile	Met	Leu	Phe	Ala	Ile	Leu	Leu	Ala	Trp	Ser	Ala	Ile
				405					410					415	
Val	Leu	Asn	Ala	Pro	Val	Leu	Ser	Phe	Thr	Ser	Ile	Cys	Ser	Pro	Ile
			420					425						430	
Phe	Gly	Met	Val	Gly	Cys	Leu	Ile	Pro	Ala	Trp	Leu	Val	Tyr	Lys	Val
	435						440					445			
Pro	Ala	Leu	His	Lys	Tyr	Lys	Gly	Val	Ser	Leu	Val	Ile	Ile	Val	Ile
	450					455					460				
Thr	Gly	Leu	Leu	Leu	Cys	Val	Ser	Pro	Phe	Leu	Ala	Phe	Ser		
465					470					475					

<210> 9712

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 9712

Thr	Glu	Leu	Arg	Pro	Phe	Glu	Val	Asp	Met	Gln	Tyr	Ile	Lys	Ile	His
1				5					10					15	
Ser	Leu	Asp	Asn	Val	Ala	Val	Ala	Leu	Ala	Asp	Leu	Ala	Glu	Gly	Thr
			20					25					30		
Glu	Val	Thr	Phe	Asp	Asn	Gln	Ser	Val	Thr	Leu	Arg	Gln	Ala	Ile	Gly
		35					40					45			
Arg	Gly	His	Lys	Phe	Ala	Leu	Ile	Pro	Ile	Ala	Lys	Gly	Glu	Asn	Val
	50					55				60					
Val	Lys	Tyr	Gly	Leu	Pro	Ile	Gly	His	Ala	Leu	Ala	Asp	Ile	Ala	Pro
65					70					75					80
Gly	Glu	Tyr	Ile	His	Ser	His	Asn	Thr	Arg	Thr	Asn	Leu	Ser	Asp	Leu
				85				90						95	
Asp	Glu	Tyr	Ser	Tyr	Gln	Pro	Asp	Phe	Gln	Ala	Glu	Glu	Gly	Gln	Ala
			100					105					110		
Ala	Asp	Arg	Glu	Val	Gln	Ile	Tyr	Arg	Arg	Ala	Ser	Gly	Glu	Val	Gly
		115					120					125			
Ile	Arg	Asn	Glu	Leu	Trp	Ile	Leu	Pro	Thr	Val	Gly	Cys	Val	Asn	Gly
	130					135					140				
Ile	Ala	Arg	Gln	Ile	Gln	Thr	Arg	Phe	Leu	Lys	Glu	Thr	Asn	Asn	Ala
145					150					155					160
Glu	Gly	Thr	Asp	Gly	Val	His	Leu	Phe	Ser	His	Thr	Tyr	Gly	Cys	Ser
			165					170						175	
Gln	Leu	Gly	Asp	Asp	His	Ile	Asn	Thr	Arg	Thr	Met	Leu	Gln	Asn	Met
			180					185					190		
Val	Arg	His	Pro	Asn	Ala	Gly	Ala	Val	Leu	Val	Ile	Gly	Leu	Gly	Cys
		195					200					205			
Glu	Asn	Asn	Gln	Val	Asp	Ala	Phe	Arg	Asp	Thr	Leu	Gly	Glu	Phe	Asp
	210					215					220				
Pro	Glu	Arg	Val	His	Phe	Met	Val	Cys	Gln	His	Gln	Asp	Asp	Glu	Val
225					230					235					240
Glu	Ala	Gly	Val	Glu	Gln	Leu	His	Gln	Leu	Tyr	Glu	Val	Met	Arg	His
			245					250						255	
Asp	Lys	Arg	Glu	Pro	Gly	Lys	Leu	Ser	Glu	Leu	Lys	Phe	Gly	Leu	Glu
			260					265					270		
Cys	Gly	Gly	Ser	Asp	Gly	Leu	Ser	Gly	Ile	Thr	Ala	Asn	Pro	Met	Leu
	275						280					285			
Gly	Arg	Phe	Ser	Asp	Tyr	Val	Ile	Ala	Asn	Gly	Gly	Thr	Thr	Val	Leu
	290					295					300				
Thr	Glu	Val	Pro	Glu	Met	Phe	Gly	Ala	Glu	Arg	Ile	Leu	Met	Ser	His
305					310					315					320


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Phe Glu Lys Val Leu Gly Pro Thr Thr Thr Thr Leu Ala Trp Lys Lys
      245      250      255
Ala Arg Leu Ile Asn Cys Thr Phe Ser Ala Pro Ala Leu Ala Asp Ala
      260      265      270
Pro Glu Thr Leu Ser Trp Lys Leu Glu Gly Thr Asp Trp Thr Ile His
      275      280      285
Asn His Ala Asn Val Phe Ser Arg Thr Gly Leu Asp Ile Gly Ala Arg
      290      295      300
Phe Phe Met Glu His Leu Pro Glu Asn Leu Glu Gly Glu Ile Val Asp
305      310      315      320
Leu Gly Cys Gly Asn Gly Val Ile Gly Leu Thr Leu Leu Ala Lys Asn
      325      330      335
Pro Glu Ala Ser Val Val Phe Ser Asp Glu Ser Pro Met Ala Val Ala
      340      345      350
Ser Ser Arg Leu Asn Val Glu Thr Asn Leu Pro Glu Ala Leu Asp Arg
      355      360      365
Cys Glu Phe Met Ile Asn Asn Ala Leu Ser Gly Val Glu Pro Phe Arg
370      375      380
Phe Asn Ala Val Phe Cys Asn Pro Pro Phe His Gln Lys His Ala Leu
385      390      395      400
Thr Asp Asn Val Ala Trp Glu Met Phe His His Ala Arg Arg Cys Leu
      405      410      415
Lys Ile Asn Gly Glu Leu Tyr Ile Val Ala Asn Arg His Leu Asp Tyr
      420      425      430
Phe His Lys Leu Lys Lys Ile Phe Gly Asn Cys Val Thr Ile Ala Thr
      435      440      445
Asn Asn Lys Phe Val Val Leu Lys Ser Val Lys Leu Gly Arg Arg Arg
450      455      460

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465

<210> 9714

<211> 313

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (313)

<400> 9714

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Val Ser Arg Pro Arg Gly Ser Gly Ala Gly Asn Ala Ser Gly Arg Ala
1      5      10      15
Gln Arg Arg Ala Ala Ala Pro Arg Arg Gln Pro Arg Pro Asp Asp Gly
      20      25      30
Ala Gly Val Trp Arg Ala Ile Met Lys Ile Leu Leu Lys Asn Arg Glu
      35      40      45
Leu Ser Ala Phe Leu Ala Ile Leu Ala Leu Phe Ala Val Leu Val Ala
50      55      60
Leu Asn Pro Ser Tyr Leu Ser Leu Gln Thr Leu Gly Met Ile Phe Ala
65      70      75      80
Ser Ala Gln Ile Leu Ile Leu Leu Ala Ile Gly Ala Ala Leu Val Met
      85      90      95
Leu Thr Arg Asn Ile Asp Val Ser Val Gly Ser Thr Val Gly Leu Ser
      100      105      110
Ala Ile Ala Val Gly Val Ala Leu Asn Ser Gly Tyr Ser Leu Pro Val
      115      120      125
Ser Ile Leu Phe Ala Leu Ser Ile Gly Ala Leu Ala Gly Ala Phe Asn
130      135      140
Gly Phe Leu Val Val Gly Leu Arg Ile Pro Ala Ile Val Ala Thr Leu
145      150      155      160

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Gly Thr Leu Gly Leu Tyr Arg Gly Ala Met Leu Leu Trp Thr Gly Gly
 165 170 175
 Lys Trp Ile Glu Gly Leu Pro Pro Gly Leu Lys Ser Leu Ser Glu Pro
 180 185 190
 Ala Ala Val Gly Ile Ser Pro Leu Gly Met Leu Val Leu Ile Ala
 195 200 205
 Ala Thr Gly Ala Trp Thr Leu Ser Arg Thr Ala Phe Gly Arg Ile Phe
 210 215 220
 Tyr Ala Val Gly Asp Asn Leu Ala Ala Arg Gln Leu Gly Val Ala
 225 230 235 240
 Val Asn Arg Thr Arg Met Ile Ala Phe Thr Leu Asn Gly Leu Leu Ala
 245 250 255
 Ala Cys Ala Gly Ile Val Phe Ala Ala Gln Ile Gly Phe Val Pro Asn
 260 265 270
 Gln Thr Gly Ser Gly Leu Glu Met Lys Ala Ile Ala Ala Leu Arg Ala
 275 280 285
 Gly Gly His Leu Ala Ala Gly Arg His Arg His Ala Asp Leu Ile Gln
 290 295 300
 Pro Pro Gly Trp Lys Asp Gln Arg Xaa
 305 310

<210> 9715

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9715

Val Met Ser Asn Asp Ile Phe Pro Asn Lys Phe Lys Ala Ala Leu Ala
 1 5 10 15
 Ala His Gln Ile Gln Ile Gly Cys Trp Ser Ala Leu Ala Asn Pro Ile
 20 25 30
 Ser Thr Glu Val Leu Gly Leu Ala Gly Phe Asp Trp Leu Val Leu Asp
 35 40 45
 Gly Glu His Ala Pro Asn Asp Ile Asn Thr Phe Ile Pro Gln Leu Met
 50 55 60
 Ala Leu Lys Gly Ser His Ser Ala Pro Val Val Arg Val Pro Thr Asn
 65 70 75 80
 Glu Pro Val Ile Ile Lys Arg Leu Leu Asp Ile Gly Phe Tyr Asn Phe
 85 90 95
 Leu Ile Pro Phe Val Glu Thr Glu Glu Ala Val Gln Ala Val Ala
 100 105 110
 Ala Thr Arg Tyr Pro Pro Glu Gly Ile Arg Gly Val Ser Val Ser His
 115 120 125
 Arg Ala Asn Met Phe Gly Thr Val Pro Asp Tyr Phe Ser Gln Ser Asn
 130 135 140
 Lys Asn Ile Thr Ile Leu Val Gln Ile Glu Ser Gln Gln Gly Val Asp
 145 150 155 160
 Asn Val Asp Ala Ile Ala Ala Thr Glu Gly Val Asp Gly Ile Phe Val
 165 170 175
 Gly Pro Ser Asp Leu Ala Ala Ala Phe Gly His Leu Gly Asn Ala Ser
 180 185 190
 His Pro Asp Val Gln Arg Ala Ile Gln His Ile Phe Ala Arg Ala Lys
 195 200 205
 Ala His Gly Lys Pro Cys Gly Ile Leu Ala Pro Val Glu Ala Asp Ala
 210 215 220
 Arg Arg Tyr Leu Glu Trp Gly Ala Thr Phe Val Ala Val Gly Ser Asp
 225 230 235 240
 Leu Gly Val Phe Arg Ala Ala Thr Gln Lys Leu Ala Asp Ala Phe Lys
 245 250 255
 Lys

<210> 9716
 <211> 304
 <212> PRT
 <213> Enterobacter cloacae

<400> 9716
 Pro Ser Leu Arg Lys Gln Ile Met Thr Leu Lys Val Gly Phe Ile Gly
 1 5 10 15
 Leu Gly Ile Met Gly Lys Pro Met Ser Lys Asn Leu Ile Lys Ala Gly
 20 25 30
 Tyr Ser Leu Val Val Leu Asp Arg Asn Ser Asp Ala Val Ala Glu Val
 35 40 45
 Ile Ala Ala Gly Ala Glu Thr Ala Thr Thr Ala Lys Ala Ile Ala Glu
 50 55 60
 Gln Cys Asp Val Ile Ile Thr Met Leu Pro Asn Ser Pro His Val Lys
 65 70 75 80
 Glu Val Ala Leu Gly Glu Asn Gly Ile Ile Asp Gly Ala Lys Pro Gly
 85 90 95
 Leu Val Val Ile Asp Met Ser Ser Ile Ala Pro Leu Ala Ser Arg Glu
 100 105 110
 Ile Ser Glu Glu Leu Lys Ala Lys Gly Val Glu Met Leu Asp Ala Pro
 115 120 125
 Val Ser Gly Gly Glu Pro Lys Ala Ile Asp Gly Thr Leu Ser Val Met
 130 135 140
 Val Gly Gly Asp Lys Ala Val Phe Asp Lys Tyr Tyr Asp Leu Met Lys
 145 150 155 160
 Ala Met Ala Gly Ser Val Val His Thr Gly Glu Ile Gly Ala Gly Asn
 165 170 175
 Val Thr Lys Leu Ala Asn Gln Val Ile Val Ala Leu Asn Ile Ala Ala
 180 185 190
 Met Ser Glu Ala Leu Thr Leu Ala Thr Lys Ala Gly Val Asn Pro Asp
 195 200 205
 Leu Val Tyr Gln Ala Ile Arg Gly Gly Leu Ala Gly Ser Thr Val Leu
 210 215 220
 Asp Ala Lys Ala Pro Met Val Met Asp Arg Asn Phe Arg Pro Gly Phe
 225 230 235 240
 Arg Ile Asp Leu His Ile Lys Asp Leu Ala Asn Ala Leu Asp Thr Ser
 245 250 255
 His Gly Val Gly Ala Gln Leu Pro Leu Thr Ala Ala Val Met Glu Met
 260 265 270
 Met Gln Ala Leu Arg Ala Asp Gly Leu Gly Thr Ala Asp His Ser Ala
 275 280 285
 Leu Ala Cys Tyr Tyr Glu Lys Leu Ala Lys Val Glu Ile Ala Arg
 290 295 300

<210> 9717
 <211> 311
 <212> PRT
 <213> Enterobacter cloacae

<400> 9717
 Ala Gln Asn Ile Met Asn Thr Ile Ile Leu Pro Lys Thr Gln His Leu
 1 5 10 15
 Val Val Phe Gln Glu Val Ile Lys Ser Gly Ser Ile Gly Ser Ala Ala
 20 25 30
 Arg Gln Leu Gly Leu Thr Gln Pro Ala Val Ser Lys Ile Ile Ser Asp
 35 40 45
 Ile Glu Ser Tyr Phe Gly Val Glu Val Met Val Arg Lys Asn Thr Gly
 50 55 60
 Val Lys Leu Thr Ala Ala Gly Gln Val Leu Leu Ser Tyr Ala Glu Ser

65					70					75				80	
Ile	Thr	Arg	Glu	Met	Lys	Asn	Met	Val	Ser	Glu	Ile	Asn	Ser	Leu	Ser
				85					90					95	
Phe	Ser	Thr	Val	Met	Asp	Val	Ser	Phe	Gly	Tyr	Pro	Ser	Leu	Ile	Gly
			100					105					110		
Phe	Thr	Phe	Leu	Ser	Gly	Met	Ile	Lys	Lys	Phe	Lys	Glu	Val	Phe	Pro
		115					120					125			
Lys	Ala	Arg	Val	Ser	Met	Tyr	Glu	Ala	Gln	Leu	Ser	Ser	Phe	Leu	Pro
	130					135					140				
Ala	Ile	Arg	Asp	Gly	Arg	Leu	Asp	Phe	Ala	Ile	Gly	Thr	Leu	Ser	Asp
145				150						155					160
Gly	Met	Gln	Leu	Gln	Asp	Leu	His	Val	Glu	Pro	Leu	Phe	Glu	Ser	Glu
				165					170						175
Phe	Val	Leu	Val	Ala	Ser	Lys	Ser	Arg	Thr	Cys	Thr	Gly	Pro	Thr	Arg
			180					185					190		
Leu	Ala	Ser	Leu	Thr	His	Glu	Gln	Trp	Val	Met	Pro	Gln	Thr	Asp	Met
	195						200					205			
Gly	Tyr	Tyr	Asn	Glu	Leu	Leu	Thr	Thr	Leu	Gln	Asp	Asn	His	Ile	Ser
	210						215				220				
Ile	Glu	Asn	Ile	Val	Gln	Thr	Asp	Ser	Val	Val	Thr	Ile	Tyr	Asn	Leu
225					230					235					240
Val	Leu	Asn	Ala	Asp	Tyr	Leu	Thr	Val	Ile	Pro	Arg	Asp	Met	Ile	Ala
				245					250					255	
Pro	Phe	Gly	Ser	Asp	Gln	Phe	Ile	Val	Leu	Pro	Val	Glu	Asp	Glu	Leu
			260					265					270		
Pro	Val	Ala	Arg	Tyr	Ala	Ala	Val	Trp	Ser	Lys	Asn	Tyr	Ser	Ile	Lys
		275					280					285			
Lys	Ser	Ala	Ser	Val	Leu	Val	Glu	Leu	Ala	Lys	Gln	Tyr	Ser	Ser	Met
	290					295					300				
Asn	Thr	Glu	Lys	Arg	Arg										
305					310										

<210> 9718

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 9718

Leu	Cys	Leu	Lys	Thr	Met	Asn	Tyr	Tyr	Asn	Glu	Asp	Ile	Met	His	Ile
1			5						10					15	
Thr	Tyr	Asp	Leu	Pro	Val	Thr	Ile	Glu	Asp	Ile	Gln	Asp	Ala	Arg	Lys
			20					25					30		
Arg	Leu	Ala	Gly	Lys	Ile	Tyr	Lys	Thr	Gly	Met	Pro	Arg	Ser	Asn	Tyr
		35					40					45			
Leu	Ser	Glu	Arg	Cys	Lys	Gly	Glu	Ile	Phe	Leu	Lys	Phe	Glu	Asn	Met
	50					55				60					
Gln	Arg	Thr	Gly	Ser	Phe	Lys	Ile	Arg	Gly	Ala	Phe	Asn	Lys	Leu	Ser
65				70					75						80
Ser	Leu	Thr	Asp	Ala	Glu	Lys	Arg	Lys	Gly	Val	Val	Ala	Cys	Ser	Ala
			85						90					95	
Gly	Asn	His	Ala	Gln	Gly	Val	Ser	Leu	Ser	Cys	Ala	Met	Leu	Gly	Ile
			100					105					110		
Asp	Gly	Lys	Val	Val	Met	Pro	Met	Gly	Ala	Pro	Lys	Ser	Lys	Val	Ala
	115						120					125			
Ala	Thr	Arg	Asp	Tyr	Ser	Ala	Glu	Val	Val	Leu	His	Gly	Glu	Asn	Phe
	130					135					140				
Asn	Asp	Thr	Ile	Ala	Lys	Val	Ser	Glu	Ile	Val	Glu	Met	Glu	Gly	Arg
145					150					155					160
Ile	Phe	Ile	Pro	Pro	Tyr	Asp	Asp	Pro	Lys	Val	Ile	Ala	Gly	Gln	Gly
			165					170						175	
Thr	Ile	Gly	Leu	Glu	Ile	Leu	Glu	Asp	Leu	Tyr	Asp	Val	Asp	Asn	Val

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      180      185      190
Ile Val Pro Ile Gly Gly Gly Gly Leu Ile Ala Gly Ile Ala Thr Ala
      195      200      205
Ile Lys Ser Ile Asn Pro Thr Ile Asn Ile Ile Gly Val Gln Ser Glu
      210      215      220
Asn Val His Gly Met Ala Ala Ser Tyr Gln Ala Gly Glu Ile Thr Asn
      225      230      235      240
His Arg Ile Thr Gly Thr Leu Ala Asp Gly Cys Asp Val Ser Arg Pro
      245      250      255
Gly Asn Leu Thr Phe Glu Ile Val Arg Glu Leu Val Asp Asp Ile Val
      260      265      270
Leu Val Ser Glu Asp Glu Ile Arg Asn Ser Met Ile Ala Leu Ile Gln
      275      280      285
Arg Asn Lys Val Val Thr Glu Gly Ala Gly Ala Leu Ala Cys Ala Ala
      290      295      300
Leu Leu Ser Gly Lys Leu Asp His Tyr Ile Gln Gly Arg Lys Thr Val
      305      310      315      320
Cys Ile Ile Ser Gly Gly Asn Ile Asp Leu Ser Arg Val Ser Gln Ile
      325      330      335
Thr Gly Phe Val Asp Ala
      340

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<210> 9719

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9719

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Leu Thr Lys Lys Thr Ser Asp Ser Gly Asn Trp Cys Asp Asn Phe Ala
1      5      10      15
Ala Ser Glu His Lys Leu Ser Asp Ala Pro Val Met Arg Lys Thr Ile
      20      25      30
Met Thr Pro Phe Met Thr Asp Asp Phe Leu Leu Asp Thr Glu Phe Ala
      35      40      45
Arg Arg Leu Tyr His Asp Tyr Ala Lys Asp Gln Pro Ile Phe Asp Tyr
      50      55      60
His Cys His Leu Pro Pro Gln Gln Val Ala Glu Asn Tyr Arg Phe Lys
      65      70      75      80
Asn Leu Tyr Asp Ile Trp Leu Lys Gly Asp His Tyr Lys Trp Arg Ala
      85      90      95
Met Arg Thr Asn Gly Val Ala Glu Arg Leu Cys Thr Gly Asp Ala Thr
      100      105      110
Asp Arg Glu Lys Phe Asp Ala Trp Ala Ala Thr Val Pro His Thr Ile
      115      120      125
Gly Asn Pro Leu Tyr His Trp Thr His Leu Glu Leu Arg Arg Pro Phe
      130      135      140
Gly Ile Thr Gly Lys Leu Leu Ser Pro Ala Thr Ala Asp Glu Ile Trp
      145      150      155      160
Asp Gln Cys Asn Asp Leu Leu Ala Gln Asp Ser Phe Ser Ala Arg Gly
      165      170      175
Ile Met Lys Gln Met Asn Val Lys Met Val Gly Thr Thr Asp Asp Pro
      180      185      190
Val Asp Ser Leu Glu His His Ala Val Val Ala Lys Asp Ser Thr Phe
      195      200      205
Asp Ile Lys Val Leu Pro Ser Trp Arg Pro Asp Lys Ala Phe Asn Ile
      210      215      220
Glu Leu Pro Thr Phe Asn Asp Tyr Met Ala Lys Leu Ala Glu Val Ser
      225      230      235      240
Asp Thr Asp Ile Arg Arg Phe Gly Asp Leu Gln Thr Ala Leu Thr Lys
      245      250      255
Arg Leu Asp His Phe Ala Ala His Gly Cys Lys Val Ser Asp His Ala

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260 265 270
 Leu Asp Val Val Leu Phe Ala Glu Ser Ser Glu Ala Glu Leu Asp Ser
 275 280 285
 Ile Leu Ala Arg Arg Leu Ser Gly Glu Ala Leu Ser Glu His Glu Val
 290 295 300
 Ala Gln Phe Lys Thr Ala Val Leu Val Phe Leu Gly Ala Glu Tyr Ala
 305 310 315 320
 Arg Arg Gly Trp Val Gln Gln Tyr His Ile Gly Ala Leu Arg Asn Asn
 325 330 335
 Asn Gln Arg Gln Phe Lys Leu Leu Gly Ala Asp Val Gly Phe Asp Ser
 340 345 350
 Ile Asn Asp Arg Pro Met Ala Glu Glu Leu Ser Lys Leu Ser Lys
 355 360 365
 Gln Asn Glu Gln Asn Leu Leu Pro Lys Thr Ile Leu Tyr Cys Leu Asn
 370 375 380
 Pro Arg Asp Asn Glu Val Leu Gly Thr Met Ile Gly Asn Phe Gln Gly
 385 390 395 400
 Glu Gly Met Pro Gly Lys Met Gln Phe Gly Ser Gly Trp Trp Phe Asn
 405 410 415
 Asp Gln Lys Asp Gly Met Glu Arg Gln Met Thr Gln Leu Ala Gln Leu
 420 425 430
 Gly Leu Leu Ser Arg Phe Val Gly Met Leu Thr Asp Ser Arg Ser Phe
 435 440 445
 Leu Ser Tyr Thr Arg His Glu Tyr Phe Arg Arg Ile Leu Cys Gln Met
 450 455 460
 Ile Gly Arg Trp Val His Ala Gly Glu Ala Pro Ala Asp Ile Gln Leu
 465 470 475 480
 Leu Gly Glu Met Val Arg Asn Ile Cys Phe Asn Asn Ala Arg Asp Tyr
 485 490 495
 Phe Ala Ile Glu Leu Asn
 500

<210> 9720

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9720

Ser Leu His Gly Cys Lys Tyr Ser Ser Pro Ser Thr Leu Leu Asn Ile
 1 5 10 15
 Ile Lys Ser Lys Asn His Leu Phe Asn Ser Gly Ala Met Met Thr Pro
 20 25 30
 Leu Leu Asp Ala Arg Asp Ile Ser Lys Gln Phe Ser Gly Val Pro Val
 35 40 45
 Leu Lys Gly Ile Asp Phe Thr Leu Leu Ala Gly Gln Val His Ala Leu
 50 55 60
 Met Gly Gly Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile Ile Ala
 65 70 75 80
 Gly Val Glu Thr Pro Asp Cys Gly Glu Leu Ser Val Ala Gly Glu Ser
 85 90 95
 Phe Thr Arg Leu Thr Pro Ala Gln Ala His Arg Leu Gly Ile Tyr Leu
 100 105 110
 Val Pro Gln Glu Pro Leu Leu Phe Pro Asn Leu Thr Val Arg Glu Asn
 115 120 125
 Ile Leu Phe Arg Leu Pro Arg Glu Arg Asp Arg Glu Lys Arg Leu Ala
 130 135 140
 Glu Lys Leu Arg Gln Leu Gln Cys Gln Leu Asn Leu Asp Ala Thr Ala
 145 150 155 160
 Ser Thr Leu Glu Val Ala Asp Gln Gln Met Val Glu Ile Leu Arg Gly
 165 170 175
 Leu Met Arg Asn Ala Arg Ile Leu Ile Leu Asp Glu Pro Thr Ala Ser

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<210> 9721
<211> 271
<212> PRT
<213> Enterobacter cloacae
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<400> 9721															
Gly	Ala	Arg	Met	Ser	Ser	Thr	Asp	Ser	Ser	Ala	Glu	Lys	Arg	Ile	Thr
1				5					10					15	
Gly	Thr	Ser	Glu	Arg	Arg	Glu	Gln	Ile	Ile	Gln	Arg	Leu	Arg	Ala	Gln
			20					25					30		
Gly	Ser	Val	Gln	Val	Asn	Asp	Leu	Ser	Leu	Leu	Phe	Gly	Val	Ser	Thr
		35					40					45			
Val	Thr	Ile	Arg	Asn	Asp	Leu	Ala	Phe	Leu	Glu	Lys	Gln	Gly	Ile	Ala
	50					55					60				
Val	Arg	Ala	Tyr	Gly	Gly	Ala	Leu	Ile	Cys	Glu	Gly	Asn	Ala	Pro	Gly
65				70						75				80	
Val	Glu	Pro	Ser	Val	Glu	Asp	Lys	Ser	Ser	Leu	Asn	Thr	Ala	Val	Lys


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<210> 9723
<211> 413
<212> PRT
<213> Enterobacter cloacae
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<400> 9723															
Thr	Lys	Ala	Gln	Glu	Glu	Arg	Ser	His	Thr	Met	Ile	Glu	Phe	Pro	Val
1				5					10					15	
Val	Leu	Val	Ile	Asn	Cys	Gly	Ser	Ser	Ser	Val	Lys	Phe	Ser	Val	Leu
			20					25					30		
Asp	Ala	Ala	Ser	Cys	Asp	Ala	Leu	Met	Thr	Gly	Ile	Ala	Asp	Gly	Ile
		35					40					45			
Asn	Thr	Glu	Lys	Ala	Phe	Ile	Ser	Val	Asn	Gly	Gly	Glu	Pro	Val	Arg
	50					55					60				
Leu	Ala	His	Gln	Asp	Tyr	Glu	Gly	Ala	Leu	Ala	Ala	Ile	Ala	Leu	Glu
65				70					75						80
Leu	Glu	Lys	Arg	Asn	Leu	Met	Gly	Ser	Val	Ala	Leu	Ile	Gly	His	Arg
				85					90					95	
Ile	Ala	His	Gly	Gly	Asp	Leu	Phe	Ser	Glu	Ser	Thr	Leu	Ile	Thr	Glu
			100					105					110		
Glu	Val	Met	Ala	Gln	Ile	Arg	Gln	Val	Ser	Pro	Leu	Ala	Pro	Leu	His
		115					120					125			
Asn	Tyr	Ala	Asn	Leu	Ser	Gly	Val	Glu	Ala	Ala	Glu	Arg	Leu	Phe	Pro
	130					135					140				
Gly	Val	Gln	Gln	Val	Ala	Val	Phe	Asp	Thr	Ser	Phe	His	Gln	Thr	Met
145					150					155					160
Pro	Pro	Gln	Ala	Tyr	Leu	Tyr	Gly	Leu	Pro	Tyr	Arg	Tyr	Phe	Glu	Glu
				165					170					175	
Leu	Gly	Val	Arg	Arg	Tyr	Gly	Phe	His	Gly	Thr	Ser	His	Arg	Tyr	Val
			180					185					190		
Ser	Ala	Gln	Ala	His	Ala	Leu	Phe	Gly	Leu	Ser	Pro	Asp	Asp	Ser	Gly
		195					200					205			
Leu	Val	Ile	Ala	His	Leu	Gly	Asn	Gly	Ala	Ser	Ile	Cys	Ala	Val	Arg
	210					215					220				
Asn	Gly	Val	Ser	Val	Asp	Thr	Ser	Met	Gly	Met	Thr	Pro	Leu	Glu	Gly

225					230				235				240
Leu	Val	Met	Gly	Thr	Arg	Cys	Gly	Asp	Val	Asp	Phe	Gly	Ala
				245					250				255
Trp	Ile	Ala	Arg	Gln	Thr	Gly	Gln	Ser	Phe	Glu	Asp	Leu	Glu
			260					265				270	Arg
Val	Asn	Lys	Glu	Ser	Gly	Leu	Leu	Gly	Ile	Ser	Gly	Ile	Ser
		275					280					285	Ser
Leu	Arg	Ala	Leu	Glu	Lys	Ala	Trp	His	Asp	Gly	Asn	Glu	Arg
		290				295					300		Ala
Leu	Ala	Ile	Lys	Thr	Phe	Val	His	Arg	Ile	Ala	Arg	His	Ile
305					310					315			Ala
His	Ala	Ala	Ser	Leu	His	Arg	Leu	Asp	Gly	Val	Val	Phe	Thr
			325						330				Gly
Ile	Gly	Glu	Asn	Ser	Val	Leu	Ile	Arg	Ala	Leu	Val	Ala	Glu
			340					345					His
Lys	Val	Phe	Gly	Ile	Ile	Leu	Asp	Glu	Ser	Lys	Asn	Ala	Leu
		355					360					365	Pro
Ser	Ala	Gly	Glu	Arg	Val	Ile	Ser	Thr	Glu	Ser	Ser	Arg	Ala
		370				375							Ala
Ala	Val	Ile	Pro	Thr	Asn	Glu	Glu	Lys	Met	Ile	Ala	Leu	Asp
385					390					395			Ala
Arg	Leu	Gly	Lys	Val	Thr	Pro	Ala	Ala	Ala	Tyr	Ala		Leu
				405					410				

<210> 9724

<211> 769

<212> PRT

<213> Enterobacter cloacae

<400> 9724

Ser	Glu	Asn	Leu	Met	Lys	Val	Thr	Ile	Asp	Thr	Gly	Val	Ala	Pro	Tyr
1			5						10					15	
Ser	Asp	Ala	Trp	Ala	Gly	Phe	Arg	Gly	Glu	Glu	Trp	Lys	Asn	Ala	Ile
		20						25					30		
Asn	Val	Arg	Asp	Phe	Ile	Gln	His	Asn	Tyr	Thr	Pro	Tyr	Glu	Gly	Asp
		35					40					45			
Glu	Ala	Phe	Leu	Ala	Gln	Ala	Thr	Pro	Ala	Thr	Thr	Ala	Leu	Trp	Gln
	50				55					60					
Lys	Val	Met	Val	Gly	Ile	Arg	Gln	Glu	Asn	Ala	Thr	His	Ala	Pro	Val
					70					75					80
Asp	Phe	Asp	Thr	Asn	Ile	Ala	Thr	Thr	Ile	Thr	Ala	His	Gly	Pro	Gly
				85					90					95	
Tyr	Ile	Asp	Gln	Glu	Leu	Glu	Thr	Ile	Val	Gly	Leu	Gln	Thr	Asp	Lys
			100					105					110		
Pro	Leu	Lys	Arg	Ala	Leu	His	Pro	Tyr	Gly	Gly	Ile	Asn	Met	Ile	Arg
		115					120					125			
Ser	Ser	Phe	Glu	Ala	Tyr	Gly	Arg	Glu	Met	Asp	Pro	Gln	Phe	Glu	Tyr
	130					135					140				
Leu	Phe	Thr	Asp	Leu	Arg	Lys	Thr	His	Asn	Gln	Gly	Val	Phe	Asp	Val
				150					155						160
Tyr	Ser	Pro	Glu	Met	Met	Arg	Cys	Arg	Lys	Ser	Gly	Val	Leu	Thr	Gly
			165						170					175	
Leu	Pro	Asp	Gly	Tyr	Gly	Arg	Gly	Arg	Ile	Ile	Gly	Asp	Tyr	Arg	Arg
			180				185						190		
Val	Ala	Leu	Tyr	Gly	Ile	Ser	Tyr	Leu	Val	Arg	Glu	Arg	Glu	Leu	Gln
		195					200					205			
Phe	Ala	Asp	Leu	Gln	Gly	Lys	Leu	Glu	Arg	Gly	Glu	Asp	Leu	Glu	Ala
	210					215					220				
Thr	Ile	Arg	Leu	Arg	Glu	Glu	Leu	Ala	Glu	His	Lys	Arg	Ala	Leu	Leu
225					230					235					240
Gln	Ile	Gln	Gln	Met	Ala	Ala	Asn	Tyr	Gly	Phe	Asp	Ile	Ser	Arg	Pro

			245					250					255				
Ala	Met	Asn	Ala	Gln	Glu	Ala	Val	Gln	Trp	Leu	Tyr	Phe	Ala	Tyr	Leu		
			260						265						270		
Ala	Ala	Val	Lys	Ser	Gln	Asn	Gly	Gly	Ala	Met	Ser	Leu	Gly	Arg	Thr		
			275						280						285		
Ala	Ser	Phe	Leu	Asp	Ile	Tyr	Ile	Glu	Arg	Asp	Met	Gln	Ala	Gly	Arg		
			290						295						300		
Leu	Asn	Glu	Val	Gln	Ala	Gln	Glu	Leu	Ile	Asp	His	Phe	Ile	Met	Lys		
			305						310						315		
Ile	Arg	Met	Val	Arg	Phe	Leu	Arg	Thr	Pro	Glu	Phe	Asp	Thr	Leu	Phe		
			325						330						335		
Ser	Gly	Asp	Pro	Ile	Trp	Ala	Thr	Glu	Val	Ile	Gly	Gly	Met	Gly	Leu		
			340						345						350		
Asp	Gly	Arg	Thr	Leu	Val	Thr	Lys	Asn	Ser	Phe	Arg	Tyr	Leu	His	Thr		
			355						360						365		
Leu	His	Thr	Met	Gly	Pro	Ala	Pro	Glu	Pro	Asn	Leu	Thr	Ile	Leu	Trp		
			370						375						380		
Ser	Glu	Lys	Leu	Pro	Ile	Ala	Phe	Lys	Lys	Tyr	Ala	Ala	Gln	Val	Ser		
			385						390						395		
Ile	Val	Thr	Ser	Ser	Leu	Gln	Tyr	Glu	Asn	Asp	Asp	Leu	Met	Arg	Thr		
			405						410						415		
Asp	Phe	Asn	Ser	Asp	Asp	Tyr	Ala	Ile	Ala	Cys	Cys	Val	Ser	Pro	Met		
			420						425						430		
Val	Ile	Gly	Lys	Gln	Met	Gln	Phe	Phe	Gly	Ala	Arg	Ala	Asn	Leu	Ala		
			435						440						445		
Lys	Thr	Leu	Leu	Tyr	Ala	Ile	Asn	Gly	Gly	Val	Asp	Glu	Lys	Leu	Lys		
			450						455						460		
Ile	Gln	Val	Gly	Pro	Lys	Thr	Glu	Pro	Leu	Leu	Asp	Glu	Val	Leu	Asp		
			465						470						475		
Tyr	Asp	Thr	Val	Met	Ala	Ser	Leu	Asp	His	Phe	Met	Asp	Trp	Leu	Ala		
			485						490						495		
Val	Gln	Tyr	Ile	Ser	Ala	Leu	Asn	Leu	Ile	His	Tyr	Met	His	Asp	Lys		
			500						505						510		
Tyr	Ser	Tyr	Glu	Ala	Ser	Leu	Met	Ala	Leu	His	Asp	Arg	Asp	Val	Tyr		
			515						520						525		
Arg	Thr	Met	Ala	Cys	Gly	Ile	Ala	Gly	Leu	Ser	Val	Ala	Ala	Asp	Ser		
			530						535						540		
Leu	Ser	Ala	Ile	Lys	Tyr	Ala	Thr	Val	Lys	Pro	Val	Arg	Asp	His	Thr		
			545						550						555		
Gly	Leu	Ala	Val	Asp	Phe	Ile	Ile	Glu	Gly	Asp	Tyr	Pro	Gln	Tyr	Gly		
			565						570						575		
Asn	Asn	Asp	Asp	Arg	Val	Asp	Ser	Ile	Ala	Cys	Asp	Leu	Val	Glu	Arg		
			580						585						590		
Phe	Met	Lys	Lys	Ile	Gln	Ala	Leu	Pro	Thr	Tyr	Arg	Asn	Ala	Val	Pro		
			595						600						605		
Thr	Gln	Ser	Ile	Leu	Thr	Ile	Thr	Ser	Asn	Val	Val	Tyr	Gly	Gln	Lys		
			610						615						620		
Thr	Gly	Asn	Thr	Pro	Asp	Gly	Arg	Arg	Gly	Gly	Thr	Pro	Phe	Ala	Pro		
			625						630						635		
Gly	Ala	Asn	Pro	Met	His	Gly	Arg	Asp	Arg	Lys	Gly	Ala	Val	Ala	Ser		
			645						650						655		
Leu	Thr	Ser	Val														

Leu	Thr	Ile	Arg	Val	Ser	Gly	Tyr	Ala	Val	Arg	Phe	Asn	Ala	Leu	Thr
			740					745					750		
Arg	Glu	Gln	Gln	Gln	Asp	Val	Ile	Ser	Arg	Thr	Phe	Thr	Gln	Ala	Met
		755					760					765			

<210> 9725

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9725

Arg	Arg	Ile	Ala	Gly	Asn	Tyr	Arg	Asn	Tyr	Arg	Ala	Ala	Ala	Leu	Cys
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Phe	Ser	Phe	Pro	Arg	Leu	Leu	Met	Arg	Leu	Asn	Lys	Val	Val	Thr	Met
			20					25					30		
Ser	Glu	Gln	Ile	Asn	Pro	Leu	Trp	Asn	His	Phe	Ile	Arg	Ala	Val	Gln
		35					40					45			
Glu	Glu	Val	Lys	Pro	Ala	Leu	Gly	Cys	Thr	Glu	Pro	Val	Ser	Leu	Ala
	50					55					60				
Leu	Ala	Cys	Ala	Met	Ala	Ala	Gly	Gln	Leu	Ser	Gly	Glu	Val	Thr	Arg
65					70					75					80
Ile	Glu	Ala	Trp	Val	Ser	Pro	Asn	Leu	Met	Lys	Asn	Gly	Leu	Gly	Val
				85					90					95	
Thr	Val	Pro	Gly	Thr	Gly	Met	Val	Gly	Leu	Pro	Ile	Ala	Ala	Ala	Leu
			100					105						110	
Gly	Ala	Thr	Gly	Gly	Asn	Ala	His	Ala	Gly	Leu	Glu	Val	Leu	Lys	Asp
		115					120					125			
Ala	Ser	Ala	Glu	Ala	Leu	Thr	Arg	Ala	Lys	Ala	Leu	Leu	Asn	Ala	Gly
		130					135					140			
Leu	Val	Gln	Val	Lys	Leu	Gln	Glu	Pro	Cys	Asp	Glu	Ile	Leu	Tyr	Ser
145					150					155					160
Arg	Ala	Cys	Val	Tyr	Ala	Gly	Glu	Ser	Ser	Ala	Met	Val	Thr	Ile	Ala
				165					170					175	
Gly	Gly	His	Thr	Arg	Val	Val	Glu	Val	Val	Cys	Gln	Gly	Glu	Thr	Cys
		180						185					190		
Phe	Arg	Leu	Asp	Asp	Arg	Gln	Ser	Gln	Asn	Asn	Asp	Asp	Pro	Leu	Ala
		195					200					205			
Val	Leu	Ser	Thr	Thr	Thr	Leu	Ser	Gln	Ile	Leu	Glu	Phe	Val	Glu	Gln
	210					215					220				
Val	Pro	Phe	Asp	Ala	Ile	Arg	Phe	Ile	Leu	Asp	Ala	Gly	Arg	Leu	Asn
225					230					235					240
Asp	Ala	Leu	Ser	Arg	Glu	Gly	Leu	Arg	Gly	Asn	Trp	Gly	Leu	His	Ile
				245					250					255	
Gly	Ala	Thr	Leu	Asn	Lys	Gln	Arg	Ala	Arg	Gly	Trp	Met	Ala	Gln	Asp
			260					265					270		
Leu	Gly	Ser	Asp	Ile	Ile	Ile	Arg	Thr	Ser	Ala	Ala	Ser	Asp	Ala	Arg
		275					280					285			
Met	Gly	Gly	Ala	Thr	Leu	Pro	Ala	Met	Ser	Asn	Ser	Gly	Ser	Gly	Asn
	290					295					300				
Gln	Gly	Ile	Thr	Ala	Thr	Met	Pro	Val	Val	Val	Val	Ala	Glu	His	Val
305					310					315					320
Gln	Ala	Asp	Asp	Glu	Arg	Leu	Ala	Arg	Ala	Leu	Met	Leu	Ser	His	Leu
				325					330					335	
Ser	Ala	Ile	Tyr	Ile	His	Tyr	Gln	Leu	Pro	Arg	Leu	Ser	Ala	Leu	Cys
			340					345					350		
Ala	Ala	Thr	Thr	Ala	Gly	Met	Gly	Ala	Ala	Ala	Gly	Met	Ala	Trp	Leu
		355					360					365			
Met	Gly	Gly	Ser	Tyr	Gln	Thr	Ile	Ala	Met	Ala	Ile	Gly	Ser	Met	Ile
	370					375					380				

Gly Asp Val Ser Gly Met Ile Cys Asp Gly Ala Ser Asn Ser Cys Ala
 385 390 395 400
 Met Lys Val Ser Thr Ser Val Thr Ser Ala Trp Lys Ala Val Met Met
 405 410 415
 Ala Leu Asp Asp Thr Ala Val Thr Gly Asn Glu Gly Ile Val Ala His
 420 425 430
 Asp Val Glu Gln Ser Ile Ser Asn Leu Cys Ala Leu Ala Cys Arg Ser
 435 440 445
 Met Gln Ala Thr Asp Arg Gln Ile Ile Glu Ile Met Ala Ser Lys Val
 450 455 460
 Leu
 465

<210> 9726

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 9726

Arg Tyr Gly Arg Cys Ile Val Ser Gln Ile Phe Cys Leu Val Cys Ser
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 Asn Phe Leu Asn Glu Asn Glu Met Ala Lys Glu Arg Ala Leu Thr Leu
 20 25 30
 Glu Ala Leu Arg Val Met Asp Ala Ile Asp Arg Arg Gly Ser Phe Ala
 35 40 45
 Ala Ala Ala Asp Glu Leu Gly Arg Val Pro Ser Ala Leu Ser Tyr Thr
 50 55 60
 Met Gln Lys Leu Glu Glu Glu Leu Asp Val Val Leu Phe Asp Arg Ser
 65 70 75 80
 Gly His Arg Thr Lys Phe Thr Asn Val Gly Arg Met Leu Leu Glu Arg
 85 90 95
 Gly Arg Val Leu Leu Glu Ala Ala Asp Lys Leu Thr Thr Asp Ala Glu
 100 105 110
 Ala Leu Ala Arg Gly Trp Glu Thr His Leu Thr Leu Val Thr Glu Ala
 115 120 125
 Leu Val Pro Thr Glu Ala Leu Phe Pro Leu Val Asp Arg Leu Ala Ala
 130 135 140
 Lys Ala Asn Thr Gln Leu Ser Ile Ile Thr Glu Val Leu Ala Gly Ala
 145 150 155 160
 Trp Glu Arg Leu Glu Thr Gly Arg Ala Asp Ile Val Ile Ala Pro Asp
 165 170 175
 Met His Phe Arg Ser Ser Ser Glu Ile Asn Ser Arg Lys Leu Tyr Ser
 180 185 190
 Val Met Asn Val Tyr Val Ala Ala Pro Asp His Pro Ile His Gln Glu
 195 200 205
 Pro Glu Pro Leu Ser Glu Val Thr Arg Val Lys Tyr Arg Gly Val Ala
 210 215 220
 Val Ala Asp Thr Ala Arg Glu Arg Pro Val Leu Thr Val Gln Leu Leu
 225 230 235 240
 Asp Lys Gln Pro Arg Leu Thr Val Thr Ser Leu Glu Asp Lys Arg Gln
 245 250 255
 Ala Leu Leu Ala Gly Leu Gly Val Ala Thr Met Pro Tyr Pro Phe Val
 260 265 270
 Glu Lys Asp Ile Ala Glu Gly Arg Leu Arg Val Val Ser Pro Glu Tyr
 275 280 285
 Thr Ser Glu Val Asp Ile Ile Met Ala Trp Arg Arg Asp Ser Met Gly
 290 295 300
 Glu Ala Lys Ser Trp Cys Leu Arg Glu Ile Pro Lys Leu Phe Ala His
 305 310 315 320
 His Asn Lys

<210> 9727

<211> 537

<212> PRT

<213> Enterobacter cloacae

<400> 9727

Gln	Arg	Gly	Lys	Leu	Met	Ser	Tyr	Leu	Leu	Ala	Leu	Asp	Ala	Gly	Thr	1	5	10	15
Gly	Ser	Val	Arg	Ala	Val	Ile	Phe	Asp	Leu	Gln	Gly	Asn	Gln	Ile	Ala	20	25	30	
Val	Gly	Gln	Ala	Glu	Trp	Lys	His	Leu	Ser	Val	Glu	Asn	Val	Pro	Gly	35	40	45	
Ser	Met	Glu	Phe	Asp	Leu	Asp	Thr	Asn	Trp	Arg	Leu	Ala	Cys	Arg	Cys	50	55	60	
Ile	Gln	Gln	Ala	Leu	Glu	Arg	Ala	Arg	Leu	Ser	Ala	Ala	Asp	Ile	Gln	65	70	75	80
Ser	Val	Ala	Cys	Cys	Ser	Met	Arg	Glu	Gly	Ile	Val	Leu	Tyr	Asp	Arg	85	90	95	
Asn	Gly	Glu	Ala	Ile	Trp	Ala	Cys	Ala	Asn	Val	Asp	Ala	Arg	Ala	Ser	100	105	110	
Arg	Glu	Val	Ala	Glu	Leu	Lys	Glu	Ile	His	Asp	Tyr	Arg	Phe	Glu	Ser	115	120	125	
Glu	Val	Tyr	Glu	Val	Ser	Gly	Gln	Thr	Leu	Ala	Leu	Ser	Ala	Met	Pro	130	135	140	
Arg	Leu	Leu	Trp	Leu	Ala	His	His	Arg	Pro	Asp	Ile	Tyr	Arg	Lys	Ala	145	150	155	160
Ala	Thr	Ile	Thr	Met	Ile	Ser	Asp	Trp	Leu	Ala	Ala	Lys	Leu	Ser	Gly	165	170	175	
Glu	Leu	Ala	Val	Asp	Pro	Ser	Asn	Ala	Gly	Thr	Thr	Gly	Met	Leu	Asp	180	185	190	
Leu	Phe	Ser	Arg	Asp	Trp	Arg	Pro	Ala	Leu	Leu	Asp	Met	Ala	Gly	Leu	195	200	205	
Arg	Ala	Asp	Ile	Leu	Ser	Pro	Val	Lys	Glu	Thr	Gly	Thr	Val	Leu	Gly	210	215	220	
Ala	Ile	Thr	Arg	Gln	Ala	Ala	Gln	Gln	Cys	Gly	Leu	Arg	Glu	Gly	Thr	225	230	235	240
Pro	Val	Val	Met	Gly	Gly	Gly	Asp	Val	Gln	Leu	Gly	Cys	Leu	Gly	Leu	245	250	255	
Gly	Val	Val	Arg	Ala	Gly	Gln	Thr	Ala	Val	Leu	Gly	Gly	Thr	Phe	Trp	260	265	270	
Gln	Gln	Val	Val	Asn	Leu	Pro	Gln	Val	Arg	Thr	Asp	Pro	Glu	Met	Asn	275	280	285	
Ile	Arg	Val	Asn	Pro	His	Val	Ile	Pro	Gly	Met	Ala	Gln	Ala	Glu	Ser	290	295	300	
Ile	Ser	Phe	Phe	Thr	Gly	Leu	Thr	Met	Arg	Trp	Phe	Arg	Asp	Ala	Phe	305	310	315	320
Cys	Ala	Glu	Glu	Lys	Leu	Ile	Ala	Glu	Arg	Met	Gly	Met	Asp	Thr	Tyr	325	330	335	
Ser	Leu	Leu	Glu	Glu	Met	Ala	Ser	Arg	Val	Pro	Ala	Gly	Ser	His	Gly	340	345	350	
Val	Met	Pro	Ile	Phe	Ser	Asp	Ala	Met	His	Phe	Lys	Gln	Trp	Tyr	His	355	360	365	
Ala	Ala	Pro	Ser	Phe	Ile	Asn	Leu	Ser	Ile	Asp	Pro	Glu	Lys	Cys	Asn	370	375	380	
Lys	Ala	Thr	Leu	Phe	Arg	Ala	Leu	Glu	Glu	Asn	Ala	Ala	Ile	Val	Ser	385	390	395	400
Ala	Cys	Asn	Leu	Ala	Gln	Ile	Ser	Arg	Phe	Ser	Gly	Val	Thr	Phe	Glu	405	410	415	
Ser	Leu	Val	Phe	Ala	Gly	Gly	Gly	Ala	Lys	Gly	Ala	Leu	Trp	Ser	Gln	420	425	430	

Ile Leu Ser Asp Val Thr Gly Leu Pro Val Arg Val Pro Glu Val Lys
 435 440 445
 Glu Ala Thr Ala Leu Gly Cys Ala Leu Ala Ala Gly Ala Gly
 450 455 460
 Leu Phe Ala Asp Met Ala Ser Thr Gly Glu Arg Leu Val Lys Trp Ser
 465 470 475 480
 Arg Glu Phe Thr Pro Asn Pro Gln His Arg Glu Leu Tyr Asp Gly Met
 485 490 495
 Met Gln Lys Trp Gln Ala Val Tyr Ala Asp Gln Leu Gly Leu Val Asp
 500 505 510
 Ser Gly Leu Thr Thr Ser Met Trp Gln Ala Pro Gly Leu Val Arg Ala
 515 520 525
 Ser Pro Ser Pro Arg Pro Ser Pro
 530 535

<210> 9728

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9728

Thr Phe Met Ile Arg Phe Ala Val Ile Gly Thr Asn Trp Ile Thr Arg
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 Gln Phe Val Asp Ala Ala His Glu Thr Gly Lys Tyr Lys Leu Thr Ala
 20 25 30
 Val Tyr Ser Arg Ser Leu Glu Gln Ala Gln Ser Phe Ala Asn Asp Tyr
 35 40 45
 Leu Val Glu His Leu Phe Thr Ser Leu Asp Glu Met Ala Gln Ser Asp
 50 55 60
 Ala Ile Asp Ala Val Tyr Ile Ala Ser Pro Asn Ser Leu His Phe Pro
 65 70 75 80
 Gln Thr Lys Leu Phe Leu Ser His Lys Lys His Val Ile Cys Glu Lys
 85 90 95
 Pro Leu Ala Ser Asn Ile Glu Glu Val Glu Ala Ala Ile Ala Leu Ala
 100 105 110
 Arg Glu Asn Gln Val Val Leu Phe Glu Ala Phe Lys Thr Ala Ser Leu
 115 120 125
 Pro Asn Phe Leu Leu Leu Gln Ser Leu Pro Lys Ile Gly Lys Val
 130 135 140
 Arg Lys Ala Phe Ile Asn Tyr Cys Gln Tyr Ser Ser Arg Tyr Gln Arg
 145 150 155 160
 Tyr Leu Asp Gly Glu Asn Pro Asn Thr Phe Asn Pro Ala Phe Ser Asn
 165 170 175
 Gly Ser Ile Met Asp Ile Gly Phe Tyr Cys Leu Ala Ser Ala Val Ala
 180 185 190
 Leu Trp Gly Glu Pro His Gly Val Thr Ala Thr Ala Ser Leu Leu Glu
 195 200 205
 Ser Gly Val Asp Ala His Gly Val Val Val Leu Asp Tyr Gly Asp Phe
 210 215 220
 Ser Val Thr Leu Gln His Ser Lys Val Ser Asp Ser Val Leu Pro Ser
 225 230 235 240
 Glu Ile Gln Gly Glu Asp Gly Ser Leu Val Ile Glu Lys Ile Ser Glu
 245 250 255
 Cys Gln Lys Leu Ser Ile Val Pro Arg Gly Gly Lys Ala Gln Glu Leu
 260 265 270
 Thr Gln Pro Gln His Ile Asn Thr Met Leu Tyr Glu Ala Glu Val Phe
 275 280 285
 Ala Arg Leu Val Glu Asp Asn Glu Val Asn His Pro Gly Leu Ala Ile
 290 295 300
 Ser Arg Thr Thr Ala Lys Leu Gln Thr Glu Ile Arg Arg Gln Thr Gly
 305 310 315 320

Val Ile Phe Pro Ala Asp Gly Val Asn Val Glu Ala Val Ala
 325 330 335

<210> 9729

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 9729

Arg Met Ser Thr Gln Ser Arg Gly Leu Phe Ala Arg Leu Ala Gln Gly
 1 5 10 15
 Ser Leu Val Lys Gln Ile Leu Val Gly Leu Val Leu Gly Ile Leu Leu
 20 25 30
 Ala Met Val Ser Lys Pro Ala Ala Thr Gly Leu Gly Thr
 35 40 45
 Leu Phe Val Gly Ala Leu Lys Ala Val Ala Pro Val Leu Val Leu Met
 50 55 60
 Leu Val Met Ala Ser Ile Ala Asn His Gln His Gly Gln Lys Thr Asn
 65 70 75 80
 Ile Arg Pro Ile Leu Phe Leu Tyr Leu Leu Gly Thr Phe Ser Ala Ala
 85 90 95
 Leu Thr Ala Val Phe Ser Phe Leu Phe Pro Ser Thr Leu His Leu
 100 105 110
 Thr Ser Ala Ala Gly Asp Ile Thr Pro Pro Ser Gly Ile Val Glu Val
 115 120 125
 Leu Arg Gly Leu Leu Met Ser Met Val Ser Asn Pro Ile Thr Ala Leu
 130 135 140
 Met Ser Gly Asn Tyr Ile Gly Ile Leu Val Trp Ala Ile Gly Leu Gly
 145 150 155 160
 Phe Ala Leu Arg His Gly Asn Glu Thr Thr Lys Asn Leu Val Asn Asp
 165 170 175
 Leu Ser Asn Ala Val Thr Phe Met Val Lys Leu Val Ile Arg Phe Ala
 180 185 190
 Pro Val Gly Ile Phe Gly Leu Val Ser Ser Thr Leu Ala Thr Thr Gly
 195 200 205
 Phe Asp Ala Leu Trp Gly Tyr Ala Gln Leu Leu Val Val Leu Val Gly
 210 215 220
 Cys Met Leu Leu Val Ala Leu Val Ile Asn Pro Leu Leu Val Phe Trp
 225 230 235 240
 Gln Ile Arg Arg Asn Pro Tyr Pro Leu Val Leu Thr Cys Leu Arg Glu
 245 250 255
 Ser Gly Val Tyr Ala Phe Phe Thr Arg Ser Ser Ala Ala Asn Ile Pro
 260 265 270
 Val Asn Met Ala Leu Ala Glu Lys Leu Asn Leu Asp Arg Asp Thr Tyr
 275 280 285
 Ser Val Ser Ile Pro Leu Gly Ala Thr Val Asn Met Ala Gly Ala Ala
 290 295 300
 Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val His Thr Leu Gly Ile
 305 310 315 320
 Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val Ala Ser Leu
 325 330 335
 Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu Leu Leu Ile
 340 345 350
 Pro Leu Ala Cys Asn Met Phe Gly Ile Pro Asn Glu Ile Ala Met Gln
 355 360 365
 Val Val Ala Val Gly Phe Ile Ile Gly Val Leu Gln Asp Ser Cys Glu
 370 375 380
 Thr Ala Leu Asn Ser Ser Thr Asp Val Leu Phe Thr Ala Ala Ala Cys
 385 390 395 400
 Gln Ala Glu Asp Ala Arg Leu Ala Lys Asn Ala Leu Arg Ser
 405 410 415

<210> 9730
 <211> 449
 <212> PRT
 <213> Enterobacter cloacae

<400> 9730

Val	Val	Ala	Val	Ser	Arg	His	Gly	Asn	Asn	Ile	Thr	Met	Arg	Phe	Tyr
1				5				10						15	
Met	Arg	Lys	Ile	Lys	Gly	Leu	Arg	Trp	Tyr	Met	Ile	Ala	Leu	Val	Thr
		20						25					30		
Leu	Gly	Thr	Val	Leu	Gly	Tyr	Leu	Thr	Arg	Asn	Thr	Val	Ala	Ala	Ala
		35					40					45			
Ala	Pro	Thr	Leu	Met	Glu	Glu	Leu	His	Ile	Ser	Thr	Gln	Gln	Tyr	Ser
		50				55					60				
Tyr	Ile	Ile	Ala	Ala	Tyr	Ser	Ala	Ala	Tyr	Thr	Val	Met	Gln	Pro	Val
65					70					75				80	
Ala	Gly	Tyr	Val	Leu	Asp	Ile	Leu	Gly	Thr	Lys	Ile	Gly	Tyr	Ala	Phe
				85					90					95	
Phe	Ala	Val	Ala	Trp	Ala	Val	Phe	Cys	Gly	Ala	Thr	Ala	Leu	Ala	Gly
		100						105					110		
Ser	Trp	Gly	Gly	Leu	Ala	Leu	Ala	Arg	Gly	Ala	Val	Gly	Ala	Ala	Glu
		115					120					125			
Ala	Ala	Met	Ile	Pro	Ala	Gly	Leu	Lys	Ala	Ser	Ser	Glu	Trp	Phe	Pro
		130				135					140				
Ala	Lys	Glu	Arg	Ser	Ile	Ala	Val	Gly	Tyr	Phe	Asn	Val	Gly	Ser	Ser
145					150					155					160
Ile	Gly	Ala	Met	Ile	Ala	Pro	Pro	Leu	Val	Val	Trp	Ala	Ile	Val	Met
				165					170					175	
His	Ser	Trp	Gln	Met	Ala	Phe	Ile	Ile	Ser	Gly	Val	Leu	Ser	Phe	Ala
			180					185					190		
Trp	Ala	Met	Ala	Trp	Leu	Ile	Phe	Tyr	Lys	His	Pro	Arg	Asp	Gln	Lys
		195					200					205			
Lys	Leu	Ser	Asp	Glu	Glu	Arg	Asp	Tyr	Ile	Ile	Asn	Gly	Gln	Glu	Ser
		210				215					220				
Gln	His	Gln	Thr	Asp	Asn	Gly	Lys	Lys	Met	Ser	Val	Trp	Gln	Ile	Leu
225					230					235					240
Gly	Thr	Arg	Gln	Phe	Trp	Gly	Ile	Ala	Leu	Pro	Arg	Phe	Leu	Ala	Glu
				245					250					255	
Pro	Ala	Trp	Gly	Thr	Phe	Asn	Ala	Trp	Ile	Pro	Leu	Phe	Met	Phe	Lys
		260						265					270		
Val	Tyr	Gly	Phe	Asn	Leu	Lys	Glu	Ile	Ala	Met	Phe	Ala	Trp	Met	Pro
		275					280					285			
Met	Leu	Phe	Ala	Asp	Leu	Gly	Cys	Ile	Val	Gly	Gly	Tyr	Leu	Pro	Pro
		290				295					300				
Leu	Phe	Gln	Arg	Trp	Phe	Gly	Val	Asn	Leu	Ile	Val	Ser	Arg	Lys	Met
305					310					315					320
Val	Val	Thr	Met	Gly	Ala	Leu	Leu	Met	Ile	Gly	Pro	Gly	Met	Ile	Gly
				325					330					335	
Leu	Phe	Thr	Ser	Pro	Tyr	Val	Ala	Ile	Ala	Leu	Leu	Cys	Ile	Gly	Gly
		340						345					350		
Phe	Ala	His	Gln	Ser	Leu	Ser	Gly	Ala	Leu	Ile	Thr	Leu	Ser	Ser	Asp
		355					360					365			
Val	Phe	Gly	Arg	Asn	Glu	Val	Ala	Thr	Ala	Asn	Gly	Leu	Thr	Gly	Met
		370				375					380				
Ala	Ala	Trp	Thr	Ala	Ser	Thr	Leu	Phe	Ala	Leu	Val	Val	Gly	Ala	Leu
385					390					395					400
Ala	Asp	Thr	Ile	Gly	Phe	Ser	Pro	Leu	Phe	Ala	Val	Leu	Ala	Val	Phe
				405					410					415	
Asp	Leu	Leu	Gly	Ala	Val	Val	Ile	Trp	Thr	Val	Leu	Lys	Ser	Lys	Ser
			420					425					430		

Ala Asp Glu Leu Ala Lys Glu Ser Leu Gly Gly Pro Ala Thr Gln Ser
 435 440 445

<210> 9731
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 9731
 Phe Trp Asn Thr Ala Tyr Ala Val Thr Gln Trp Lys Val Ser Ile Met
 1 5 10 15
 Lys Tyr Arg Ile Thr Leu Ala Leu Ala Leu Phe Ser Leu Ser Thr Ala
 20 25 30
 Ser Phe Ala Met Ser Leu Cys Gln Glu Lys Glu Gln Asp Ile Gln Arg
 35 40 45
 Glu Ile Ser Tyr Ala Glu Lys His Asn Asn Gln His Arg Ile Asp Gly
 50 55 60
 Leu Lys Lys Ala Leu Ser Glu Val Lys Asp Asn Cys Thr Asp Ser Lys
 65 70 75 80
 Leu Arg Ala Asp His Gln Glu Lys Ile Ala Glu Gln Lys Asp Glu Ile
 85 90 95
 Ala Glu Arg Arg Gln Asp Leu Gln Glu Ala Lys Glu Lys Gly Asp Ala
 100 105 110
 Glu Lys Ile Ala Lys Arg Glu Arg Lys Leu Gln Glu Ala Gln Asp Glu
 115 120 125
 Leu Lys Ala Leu Glu Ala Arg Asp Tyr
 130 135

<210> 9732
 <211> 100
 <212> PRT
 <213> Enterobacter cloacae

<400> 9732
 Val Val Ser Asp Lys Ala Glu Arg Gln Lys Arg Lys Ala Tyr Leu Leu
 1 5 10 15
 Ser Gln Ile Gln Gln Arg Leu Asp Leu Ser Ala Ser Arg Arg Asp
 20 25 30
 Trp Val Glu Ala Thr His Arg Phe Asp Arg Gly Trp Asn Thr Val Leu
 35 40 45
 Ser Leu Arg Ser Trp Ala Leu Val Gly Ser Ser Val Met Ala Ile Trp
 50 55 60
 Ser Val Arg His Pro Asn Met Leu Ile Arg Trp Ala Arg Arg Gly Phe
 65 70 75 80
 Gly Ala Trp Ser Ala Trp Arg Leu Val Lys Thr Thr Leu Arg Gln Gln
 85 90 95
 Gln Leu Arg
 100

<210> 9733
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 9733
 Arg Glu Val Lys Phe Met Ile Thr Thr Arg Thr Ala Lys Gln Cys Gly
 1 5 10 15
 Gln Ala Asp Phe Gly Trp Leu Gln Ala Arg Tyr Thr Phe Ser Phe Gly
 20 25 30

His Tyr Phe Asp Pro Lys Leu Leu Gly Tyr Ala Ser Leu Arg Val Leu
 35 40 45
 Asn Gln Glu Val Leu Ala Pro Gly Ala Ser Phe Gln Pro Arg Thr Tyr
 50 55 60
 Pro Lys Val Asp Ile Leu Asn Leu Ile Leu Glu Gly Glu Ala Glu Tyr
 65 70 75 80
 Arg Asp Ser Glu Gly Asn His Val Gln Ala Lys Ala Gly Glu Ala Leu
 85 90 95
 Leu Ile Ser Thr Gln Pro Gly Ile Ser Tyr Ser Glu His Asn Leu Ser
 100 105 110
 Lys Asp Lys Thr Leu Thr Arg Met Gln Leu Trp Leu Asp Ala Cys Pro
 115 120 125
 Glu Arg Glu Asn Pro Leu Val Gln Lys Ile Asp Leu Lys Gly Asp Gln
 130 135 140
 Gln Gln Leu Ile Ala Ser Pro Asp Gly Ser Lys Gly Ser Leu Gln Leu
 145 150 155 160
 Arg Gln Gln Val Trp Leu His His Ile Glu Leu Lys Lys Gly Glu Gln
 165 170 175
 Ala Ser Phe Gln Leu His Gly Pro Arg Ala Tyr Leu Gln Ser Ile His
 180 185 190
 Gly Thr Val His Ala Val Thr His Thr Glu Glu Lys Glu Ala Leu Thr
 195 200 205
 Cys Gly Asp Gly Ala Phe Ile Arg Asp Glu Ala Asn Ile Thr Leu Val
 210 215 220
 Ala Asp Thr Pro Leu Arg Ala Leu Leu Ile Asp Leu Pro Val
 225 230 235

<210> 9734

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9734

Thr Met Ala Asp Ile Glu Ile Arg Gln Ala Ser Pro Thr Ala Phe Tyr
 1 5 10 15
 Ile Lys Val His Asp Thr Asp Asn Val Ala Ile Ile Val Asn Asp Asn
 20 25 30
 Gly Leu Lys Ala Gly Thr Arg Phe Pro Asp Gly Leu Glu Ile Glu
 35 40 45
 His Ile Pro Gln Gly His Lys Val Ala Leu Val Asp Ile Pro Ala His
 50 55 60
 Gly Glu Ile Val Arg Tyr Gly Glu Val Ile Gly Tyr Ala Val Arg Ala
 65 70 75 80
 Ile Pro Gln Gly Ser Trp Ile Glu Glu Ser Leu Val Glu Leu Pro Thr
 85 90 95
 Ala Pro Pro Leu Glu Thr Leu Pro Leu Ala Thr Arg Val Pro Glu Pro
 100 105 110
 Leu Pro Pro Leu Glu Gly Tyr Thr Phe Glu Gly Tyr Arg Asn Ala Asp
 115 120 125
 Gly Ser Val Gly Thr Lys Asn Leu Leu Gly Ile Thr Thr Ser Val His
 130 135 140
 Cys Val Ala Gly Val Val Asp Tyr Val Val Lys Ile Ile Glu Arg Asp
 145 150 155 160
 Leu Leu Pro Lys Tyr Pro Asn Val Asp Gly Val Val Gly Leu Asn His
 165 170 175
 Leu Tyr Gly Cys Gly Val Ala Ile Asn Ala Pro Ala Ala Val Val Pro
 180 185 190
 Ile Arg Thr Ile His Asn Ile Ala Leu Asn Pro Asn Phe Gly Gly Glu
 195 200 205
 Val Met Val Ile Gly Leu Gly Cys Glu Lys Leu Gln Pro Glu Arg Leu
 210 215 220

Leu	Gln	Gly	Thr	Glu	Asp	Val	Lys	Ala	Ile	Pro	Val	Asp	Asp	Ala	Ser
225					230					235					240
Val	Val	Arg	Leu	Gln	Asp	Glu	His	His	Val	Gly	Phe	Arg	Ser	Met	Val
				245					250					255	
Asp	Asp	Ile	Leu	Gln	Val	Ala	Glu	Arg	His	Leu	Glu	Lys	Leu	Asn	Lys
			260					265					270		
Arg	Gln	Arg	Glu	Thr	Cys	Pro	Ala	Ser	Glu	Leu	Val	Val	Gly	Thr	Gln
		275					280					285			
Cys	Gly	Gly	Ser	Asp	Ala	Phe	Ser	Gly	Val	Thr	Ala	Asn	Pro	Ala	Val
	290					295					300				
Gly	Tyr	Ala	Ser	Asp	Leu	Phe	Val	Arg	Cys	Gly	Ala	Thr	Val	Met	Phe
305					310					315					320
Ser	Glu	Val	Thr	Glu	Val	Arg	Asp	Ala	Ile	His	Leu	Leu	Thr	Pro	Arg
				325					330					335	
Ala	Val	Asn	Glu	Glu	Val	Gly	Lys	Arg	Leu	Leu	Glu	Glu	Met	Ala	Trp
		340						345					350		
Tyr	Asp	Asn	Tyr	Leu	Asp	Met	Gly	Lys	Thr	Asp	Arg	Ser	Ala	Asn	Pro
	355						360					365			
Ser	Pro	Gly	Asn	Lys	Lys	Gly	Gly	Leu	Ala	Asn	Val	Val	Glu	Lys	Ala
	370					375					380				
Leu	Gly	Ser	Ile	Ala	Lys	Ser	Gly	Gln	Ser	Ala	Ile	Val	Glu	Val	Leu
385					390					395					400
Ser	Pro	Gly	Gln	Arg	Pro	Thr	Lys	Arg	Gly	Leu	Ile	Tyr	Ala	Ala	Thr
			405						410					415	
Pro	Ala	Ser	Asp	Phe	Val	Cys	Gly	Thr	Gln	Gln	Val	Ala	Ser	Gly	Ile
		420						425					430		
Thr	Val	Gln	Val	Phe	Thr	Thr	Gly	Arg	Gly	Thr	Pro	Tyr	Gly	Leu	Met
	435						440					445			
Ala	Val	Pro	Val	Ile	Lys	Met	Ala	Thr	Arg	Thr	Glu	Leu	Ala	Asn	Arg
	450					455					460				
Trp	Tyr	Asp	Leu	Met	Asp	Ile	Asn	Ala	Gly	Thr	Ile	Ala	Thr	Gly	Glu
465					470					475					480
Glu	Ser	Ile	Glu	Glu	Val	Gly	Trp	Lys	Leu	Phe	His	Phe	Ile	Leu	Asp
			485						490					495	
Val	Ala	Ser	Gly	Arg	Lys	Lys	Thr	Phe	Ser	Asp	Gln	Trp	Gly	Leu	His
			500					505					510		
Asn	Ser	Leu	Ala	Val	Phe	Asn	Pro	Ala	Pro	Val	Thr				
		515					520					525			

<210> 9735

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 9735

Met	Pro	Thr	Pro	Ser	Glu	Met	Glu	Arg	Lys	Val	Lys	His	Leu	Thr	Glu
1				5					10					15	
Met	Val	Glu	Gln	His	Lys	Arg	Gly	Asn	Thr	Asn	Gly	Ile	Tyr	Ala	Val
			20					25					30		
Cys	Ser	Ala	His	Pro	Leu	Val	Leu	Glu	Ala	Ala	Ile	Arg	Tyr	Ala	His
		35					40					45			
Ser	Gln	Gln	Thr	Pro	Leu	Leu	Ile	Glu	Ala	Thr	Ser	Asn	Gln	Val	Asp
		50				55					60				
Gln	Phe	Gly	Gly	Tyr	Thr	Gly	Met	Thr	Pro	Ala	Asp	Phe	Tyr	Gly	Phe
65					70					75					80
Val	Cys	Lys	Leu	Ala	Gly	Ser	Leu	Gly	Phe	Pro	Thr	Ser	Gln	Leu	Ile
				85					90					95	
Leu	Gly	Gly	Asp	His	Leu	Gly	Pro	Asn	Arg	Trp	Gln	Asn	Leu	Pro	Ala
			100					105					110		
Leu	Gln	Ala	Met	Ala	Asn	Ala	Asp	Asp	Leu	Ile	Arg	Ser	Tyr	Val	Ala
		115					120					125			

Ala	Gly	Phe	Lys	Lys	Ile	His	Leu	Asp	Cys	Ser	Met	Ser	Cys	Glu	Asp
	130					135					140				
Asp	Pro	Val	Pro	Leu	Thr	Asp	Ala	Ile	Val	Ala	Gly	Arg	Ala	Ala	Arg
145					150					155					160
Leu	Ala	Lys	Ile	Ala	Glu	Thr	Thr	Cys	Leu	Glu	Gln	Phe	Gly	Val	Ala
				165					170					175	
Asp	Leu	Val	Tyr	Val	Ile	Gly	Thr	Glu	Val	Pro	Val	Pro	Gly	Gly	Ala
			180					185					190		
His	Glu	Thr	Leu	Thr	Glu	Leu	Glu	Val	Thr	Thr	Pro	Glu	Ala	Ala	Arg
		195					200					205			
Ala	Thr	Leu	Glu	Ala	His	Arg	His	Ala	Phe	Glu	Lys	Glu	Gly	Leu	Ser
	210					215					220				
Asp	Ile	Trp	Pro	Arg	Ile	Ile	Gly	Leu	Val	Val	Gln	Pro	Gly	Val	Glu
225					230					235					240
Phe	Asp	His	Ala	His	Val	Cys	Asp	Tyr	Gln	Pro	His	Lys	Ala	Val	Ala
				245					250					255	
Leu	Ser	Lys	Met	Val	Glu	Ala	Tyr	Asp	Thr	Leu	Val	Phe	Glu	Ala	His
			260					265					270		
Ser	Thr	Asp	Tyr	Gln	Thr	Pro	Gln	Ala	Leu	Arg	Gln	Leu	Val	Lys	Asp
		275					280					285			
His	Phe	Ala	Ile	Leu	Lys	Val	Gly	Pro	Ala	Leu	Thr	Phe	Ala	Leu	Arg
	290					295					300				
Glu	Ala	Leu	Phe	Ser	Leu	Ala	Ala	Ile	Glu	Glu	Glu	Leu	Leu	Pro	Ala
305					310					315					320
Lys	Ala	Cys	Ser	Gly	Leu	Arg	His	Val	Leu	Glu	Asn	Val	Met	Leu	Asp
				325					330					335	
Arg	Pro	Glu	Tyr	Trp	Gln	Ser	His	Tyr	His	Gly	Asp	Gly	Asn	Ala	Arg
			340					345					350		
Arg	Leu	Ala	Arg	Gly	Tyr	Ser	Tyr	Ser	Asp	Arg	Val	Arg	Tyr	Tyr	Trp
	355						360					365			
Pro	Asp	Ser	Gln	Ile	Asp	Asp	Ala	Phe	Glu	Arg	Leu	Val	Arg	Asn	Leu
	370					375					380				
Ala	Asp	Glu	Pro	Ile	Pro	Leu	Pro	Leu	Ile	Ser	Gln	Tyr	Leu	Pro	Leu
385					390					395					400
Gln	Tyr	Ser	Lys	Val	Arg	Asp	Gly	Ala	Leu	Ser	Ser	Thr	Pro	Arg	Glu
				405					410					415	
Leu	Ile	Leu	Asp	His	Ile	Gln	Asp	Ile	Leu	His	Gln	Tyr	His	Ala	Ala
			420					425					430		
Cys	Glu	Gly	Val	Thr	Thr	Gln	His	Ala							
		435					440								

<210> 9736

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 9736

Ser	Thr	Cys	Cys	Ala	Asn	Arg	Leu	Asn	Pro	Arg	Arg	Leu	Arg	Pro	Arg
1				5					10					15	
Lys	Arg	Asn	Leu	Lys	Met	Ala	Ser	Asn	His	Thr	Thr	Leu	Pro	Gly	Val
			20					25					30		
Ser	Glu	Ser	Glu	Glu	Thr	Leu	Leu	Thr	Gly	Val	Asn	Glu	Asn	Val	Tyr
		35					40					45			
Glu	Asp	Gln	Ser	Ile	Gly	Ala	Glu	Leu	Thr	Lys	Lys	Asp	Ile	Asn	Arg
	50					55					60				
Val	Ala	Trp	Arg	Ser	Met	Leu	Leu	Gln	Ala	Ser	Phe	Asn	Tyr	Glu	Arg
65					70					75					80
Met	Gln	Ala	Ser	Gly	Trp	Leu	Tyr	Gly	Leu	Leu	Pro	Ala	Leu	Lys	Lys
				85					90					95	
Ile	His	Thr	Asn	Lys	Arg	Asp	Leu	Ala	Arg	Ala	Met	Lys	Gly	His	Met
			100					105					110		

Gly	Phe	Phe	Asn	Thr	His	Pro	Phe	Leu	Val	Thr	Phe	Val	Ile	Gly	Ile
		115					120					125			
Ile	Leu	Ala	Met	Glu	Arg	Ser	Lys	Gln	Asp	Val	Asn	Ser	Ile	Gln	Ser
		130					135					140			
Thr	Lys	Ile	Ala	Val	Gly	Ala	Pro	Leu	Gly	Gly	Ile	Gly	Asp	Ala	Met
145					150					155					160
Phe	Trp	Leu	Thr	Leu	Leu	Pro	Ile	Cys	Gly	Gly	Ile	Gly	Ala	Ser	Leu
				165					170					175	
Ala	Leu	Gln	Gly	Ser	Ile	Leu	Gly	Ala	Val	Val	Phe	Ile	Val	Leu	Phe
			180					185					190		
Asn	Val	Val	His	Leu	Gly	Leu	Arg	Phe	Gly	Leu	Ala	His	Tyr	Ala	Tyr
		195					200					205			
Arg	Met	Gly	Val	Ala	Ala	Ile	Pro	Leu	Ile	Lys	Ala	Asn	Thr	Lys	Lys
		210				215					220				
Val	Gly	His	Ala	Ala	Ser	Ile	Val	Gly	Met	Thr	Val	Ile	Gly	Ala	Leu
225					230					235					240
Val	Ala	Thr	Tyr	Val	Arg	Leu	Asn	Thr	Thr	Leu	Glu	Ile	Lys	Ala	Gly
				245					250					255	
Asp	Ala	Val	Val	Lys	Leu	Gln	Thr	Asp	Val	Ile	Asp	Lys	Leu	Met	Pro
			260					265					270		
Ala	Phe	Leu	Pro	Leu	Val	Tyr	Thr	Leu	Ile	Met	Phe	Trp	Leu	Val	Arg
		275					280					285			
Arg	Gly	Trp	Ser	Pro	Leu	Arg	Leu	Ile	Gly	Ile	Thr	Val	Val	Leu	Gly
		290				295					300				
Val	Val	Gly	Lys	Phe	Cys	His	Phe	Leu							
305					310										

<210> 9737

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9737

Ser	Val	Leu	Ser	Arg	Gly	Ser	His	Phe	His	Val	Ala	Pro	Ser	Arg	Thr
1				5					10					15	
Tyr	Asp	Leu	Asn	Phe	Tyr	Lys	Ser	Ser	Ile	Met	Ser	Asp	Lys	Arg	Thr
			20					25					30		
Ala	Glu	Glu	Gly	Arg	Phe	Ala	Gly	Leu	Ala	Leu	Ala	Glu	Glu	Glu	Leu
		35					40					45			
Val	Ala	Arg	Val	Ala	Trp	Cys	Tyr	Tyr	His	Asp	Gly	Leu	Thr	Gln	Asn
		50				55					60				
Asp	Ile	Gly	Glu	Arg	Leu	Gly	Leu	Pro	Arg	Leu	Lys	Ile	Ser	Arg	Leu
65				70					75						80
Leu	Glu	Lys	Gly	Arg	Gln	Ser	Gly	Val	Ile	Arg	Val	Gln	Ile	Asn	Ser
				85					90					95	
Arg	Tyr	Glu	Gly	Cys	Leu	Ala	Leu	Glu	Thr	Glu	Leu	Gln	Gln	Arg	Phe
			100					105					110		
Gly	Leu	Lys	Leu	Val	Arg	Val	Met	Pro	Ala	Leu	Asn	Thr	Pro	Pro	Met
		115					120					125			
Asn	Val	Arg	Leu	Gly	Ile	Gly	Ala	Ala	Gln	Ser	Leu	Met	Gly	Val	Leu
		130				135					140				
Glu	Pro	Gly	Gln	Leu	Leu	Ala	Val	Gly	Phe	Gly	Glu	Thr	Thr	Met	Ser
145				150						155					160
Ser	Leu	Gln	His	Leu	Ser	Gly	Phe	Ile	Ser	Ser	Gln	Gln	Ile	Arg	Leu
				165					170					175	
Val	Thr	Leu	Ser	Gly	Gly	Val	Gly	Pro	Tyr	Met	Thr	Gly	Ile	Gly	Gln
			180					185					190		
Leu	Asp	Ala	Ala	Cys	Ser	Val	Ser	Met	Ile	Pro	Ala	Pro	Leu	Arg	Val
		195					200					205			
Ser	Ser	Ala	Glu	Val	Ala	Gly	Ile	Leu	Lys	Arg	Glu	Thr	Ser	Val	Arg
		210				215						220			

Asp Val Ile Leu Ala Ala Thr Ala Ala Asp Val Ala Val Val Gly Ile
 225 230 235 240
 Gly Ser Val Asn Gln Arg Arg Asp Ala Thr Ile Leu Arg Ser Gly Tyr
 245 250 255
 Ile Ser Glu Gly Glu Gln Leu Met Tyr Ala Arg Lys Gly Ala Val Gly
 260 265 270
 Asp Ile Leu Gly Tyr Phe Leu Asn Ala Glu Gly Glu Cys Val Glu Glu
 275 280 285
 Leu Glu Ile His Lys Glu Leu Leu Gly Val Thr Leu Asp Glu Leu Ala
 290 295 300
 Gln Leu Pro Thr Ile Val Gly Val Ala Gly Gly Glu Glu Lys Ala Asp
 305 310 315 320
 Ala Ile Tyr Ala Ala Leu Lys Gly Arg Arg Ile Asn Gly Leu Val Thr
 325 330 335
 Glu Glu Thr Thr Ala Arg Ala Val Leu Ala Leu Ala Gly
 340 345 350

<210> 9738

<211> 688

<212> PRT

<213> Enterobacter cloacae

<400> 9738

Leu Ile Arg Pro His Asn Asn Asn Phe Thr Leu Glu Glu Thr Met Ser
 1 5 10 15
 Arg Tyr Pro Ser Leu Phe Ala Pro Leu Asp Leu Gly Phe Thr Thr Leu
 20 25 30
 Lys Asn Arg Val Leu Met Gly Ser Met His Thr Gly Leu Glu Glu Arg
 35 40 45
 Pro Asp Gly Ala Glu Arg Leu Ala Ala Phe Tyr Ala Glu Arg Ala Arg
 50 55 60
 His Gly Val Ala Leu Ile Val Thr Gly Gly Val Ala Pro Ala Pro Ser
 65 70 75 80
 Gly Val Thr Met Glu Gly Gly Ala Val Leu Asn Asp Ala Ser Gln Leu
 85 90 95
 Ser His His Arg Ile Val Thr Asp Ala Val His Arg Glu Gly Gly Lys
 100 105 110
 Ile Ala Leu Gln Ile Leu His Thr Gly Arg Tyr Ser Tyr Gln Pro Asn
 115 120 125
 Leu Val Ala Pro Ser Ala Ile Gln Ala Pro Ile Asn Arg Phe Thr Pro
 130 135 140
 His Ala Leu Ser His Asp Glu Ile Leu Ala Leu Ile Asp Asp Phe Ala
 145 150 155 160
 Arg Cys Ala Ala Leu Ala Arg Glu Ala Gly Tyr Asp Gly Val Glu Val
 165 170 175
 Met Gly Ser Glu Gly Tyr Leu Ile Asn Glu Phe Leu Ala Ala Arg Thr
 180 185 190
 Asn Gln Arg Asp Asp Glu Trp Gly Gly Asp Tyr Ala Arg Arg Met Arg
 195 200 205
 Phe Ala Val Glu Val Val Arg Ala Val Arg Glu Arg Ala Gly Ala Asp
 210 215 220
 Phe Ile Ile Ile Phe Arg Leu Ser Met Leu Asp Leu Val Glu Gly Gly
 225 230 235 240
 Gly Thr Phe Asp Glu Thr Val Gln Leu Ala Gln Ala Ile Glu Ala Ala
 245 250 255
 Gly Ala Thr Ile Ile Asn Thr Gly Ile Gly Trp His Glu Ala Arg Ile
 260 265 270
 Pro Thr Ile Ala Thr Pro Val Pro Arg Ala Ala Phe Ser Trp Val Thr
 275 280 285
 Arg Lys Leu Lys Gly Lys Val Ser Val Pro Leu Val Thr Thr Asn Arg
 290 295 300

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Ile Asn Asp Pro Gln Val Ala Asp Asp Val Ile Ser Arg Gly Asp Ala
305          310          315          320
Asp Met Val Ser Met Ala Arg Pro Phe Leu Ala Asp Ala Glu Leu Leu
          325          330          335
Ser Lys Ala Gln Ser Gly Arg Ala Asp Glu Ile Asn Thr Cys Ile Gly
          340          345          350
Cys Asn Gln Ala Cys Leu Asp Gln Ile Phe Ala Gly Lys Val Thr Ser
          355          360          365
Cys Leu Val Asn Pro Arg Ala Cys His Glu Thr Lys Met Pro Val Val
          370          375          380
Thr Thr Val Asn Lys Lys Arg Leu Ala Val Val Gly Ala Gly Pro Ala
385          390          395          400
Gly Leu Ala Phe Ala Val Asn Ala Ala Ser Arg Gly His Gly Val Thr
          405          410          415
Leu Phe Asp Ala Gln Gly Glu Ile Gly Gly Gln Phe Asn Ile Ala Lys
          420          425          430
Gln Ile Pro Gly Lys Asp Glu Phe Tyr Glu Thr Leu Arg Tyr Tyr Arg
          435          440          445
Arg Met Ile Glu Val Thr Gly Val Asp Leu Arg Leu Asn Gln Phe Val
          450          455          460
Ser Ala Ala Asp Leu Ile Gly Phe Asp Glu Val Ile Leu Ala Ser Gly
465          470          475          480
Ile Ala Pro Arg Thr Pro Ala Ile Glu Gly Ile Asp His Pro Lys Val
          485          490          495
Leu Ser Tyr Leu Asp Val Leu Arg Asp Lys Ala Pro Val Gly Glu Lys
          500          505          510
Val Ala Ile Ile Gly Cys Gly Gly Ile Gly Phe Asp Thr Ala Met Tyr
          515          520          525
Leu Ser Gln Pro Gly Glu Ala Thr Ser Gln Asn Ile Ala Glu Phe Cys
          530          535          540
Val Glu Trp Gly Ile Asp Thr Ser Leu Ser Gln Ser Gly Gly Leu Arg
545          550          555          560
Pro Glu Gly Pro Gln Leu Pro Lys Ser Pro Arg Gln Ile Val Met Leu
          565          570          575
Gln Arg Lys Ala Ser Lys Pro Gly Glu Gly Leu Gly Lys Thr Thr Gly
          580          585          590
Trp Ile His Arg Ala Thr Leu Leu Ser Arg Gly Val Lys Met Ile Pro
          595          600          605
Ala Val Ser Tyr Gln Lys Ile Asp Asp Asp Gly Leu His Val Leu Ile
          610          615          620
Gly Gly Glu Pro Gln Leu Leu Arg Val Asp His Val Ile Leu Cys Ala
625          630          635          640
Gly Gln Glu Pro Lys Arg Asp Leu Ala Asp Pro Leu Arg Glu Ala Gly
          645          650          655
Lys Thr Val His Leu Ile Gly Gly Cys Asp Val Ala Met Glu Leu Asp
          660          665          670
Ala Arg Arg Ala Ile Ala Gln Gly Thr Gln Leu Ala Leu Val Ile
          675          680          685

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<210> 9739

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9739

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Asn Ala Gly Leu Tyr Glu Ile Arg Arg Pro Thr Asp Val Leu Pro Asp
1          5          10          15
Ala Ala Ala Arg Arg Ser Ala Gly Val Trp Pro Gly Arg Val Pro Gly
          20          25          30
Arg Thr Val Glu Glu Glu Ile Arg Gly Gln Gly Leu Thr Met Val Ile
          35          40          45

```

Ser Pro Leu Ala Leu Arg Arg Phe Ser Tyr Ala Ile Val Ala Leu Met
50 55 60
Met Phe Ser Ala Leu Ile Leu Leu Trp Ser Ala Leu Gln His Gln Glu
65 70 75 80
Ser Thr Leu Ala Ile Arg Pro Val Ser Gln Gly Thr Ser Val Pro Asp
85 90 95
Gly Phe Ser Ile Trp His His Leu Asp Ala Asn Gly Ile Arg Phe Lys
100 105 110
Ser Ile Thr Pro Gln Asn Asp Val Leu Leu Ile Lys Phe Asp Ser Ser
115 120 125
Ala Gln Ser Ala Ala Ala Lys Ala Val Leu Asp Arg Thr Leu Pro Gln
130 135 140
Gly Tyr Ile Ile Ala Gln Gln Asp Asp Ser His Val Ala Ser Trp
145 150 155 160
Met Ser Arg Leu Arg Asp Thr Ser His Arg Phe Gly
165 170

<210> 9740

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9740

Ser Leu Asp Gly Cys Gly Tyr Trp Arg Arg Ser Gly Cys Gly Ala Gly
1 5 10 15
Cys Pro Ala Asp Ala Ser Leu Ile Met Glu Asp Pro Arg His Ala Gln
20 25 30
Gly Pro Ala Lys Asn Val Leu Gly Ile Gly Gln Arg Ile Leu Thr Thr
35 40 45
Leu Val Gly Ile Ala Glu Thr Arg Val Arg Leu Ala Val Val Glu Leu
50 55 60
Glu Glu Glu Lys Ala Asn Leu Phe Gln Met Leu Leu Met Leu Gly Leu
65 70 75 80
Thr Met Leu Phe Ala Ala Phe Gly Leu Met Ser Leu Met Val Leu Ile
85 90 95
Ile Trp Ala Ile Asp Pro Gln Tyr Arg Leu Asn Ala Met Ile Ala Thr
100 105 110
Thr Val Val Leu Leu Val Ala Ala Leu Ile Gly Gly Ile Trp Thr Leu
115 120 125
His Lys Ala Arg Thr Ser Thr Phe Leu Arg His Thr Arg Gln Glu Leu
130 135 140
Ala Asn Asp Arg Ala Leu Leu Glu Asp Asp Lys Ser
145 150 155

<210> 9741

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9741

Cys Gly Ser Leu Glu Ser Lys Met Lys Lys Leu Glu Asp Val Gly Val
1 5 10 15
Leu Val Ala Arg Ile Leu Met Pro Ile Leu Phe Ile Thr Ala Gly Trp
20 25 30
Gly Lys Ile Thr Gly Tyr Ala Gly Thr Gln Gln Tyr Met Glu Ala Met
35 40 45
Gly Val Pro Gly Phe Leu Leu Pro Leu Thr Ile Leu Leu Glu Phe Gly
50 55 60
Gly Gly Leu Ala Val Leu Phe Gly Phe Leu Thr Arg Thr Thr Ala Leu
65 70 75 80
Phe Thr Ala Gly Phe Thr Leu Leu Thr Ala Phe Ile Phe His Ser Asn

				85					90					95			
Phe	Ala	Glu	Gly	Val	Asn	Ser	Leu	Met	Phe	Met	Lys	Asn	Leu	Thr	Ile		
			100					105					110				
Ala	Gly	Gly	Phe	Leu	Leu	Leu	Ala	Ile	Thr	Gly	Pro	Gly	Ala	Tyr	Ser		
		115					120					125					
Ile	Asp	Arg	Leu	Leu	Asn	Lys	Lys	Trp									
	130					135											

<210> 9742

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 9742

Ala	Gly	Tyr	Thr	Asp	Tyr	Ile	Gln	Ser	Glu	Glu	Thr	Ser	Pro	Arg	Phe		
1				5					10					15			
Cys	Tyr	Leu	Thr	Glu	Glu	Lys	Lys	Met	Gly	Gln	Leu	Val	Asp	Gly	Val		
		20						25					30				
Trp	Gln	Asp	Val	Trp	Tyr	Asp	Thr	Lys	Ser	Thr	Gly	Gly	Arg	Phe	Lys		
		35					40					45					
Arg	Ser	Val	Ser	Ala	Phe	Arg	Asn	Trp	Leu	Thr	Ala	Asp	Gly	Ala	Pro		
	50					55					60						
Gly	Pro	Ser	Gly	Glu	Gly	Gly	Phe	Ala	Ala	Glu	Lys	Asp	Arg	Tyr	His		
65				70					75						80		
Leu	Tyr	Val	Ser	Leu	Ala	Cys	Pro	Trp	Ala	His	Arg	Thr	Leu	Ile	Val		
				85				90						95			
Arg	Lys	Leu	Lys	Gly	Leu	Glu	Ser	Leu	Ile	Pro	Val	Ser	Val	Val	Asn		
			100					105					110				
Pro	Leu	Met	Leu	Glu	Asn	Gly	Trp	Thr	Phe	Asp	Ser	Asp	Phe	Pro	Ala		
		115					120					125					
Ala	Thr	Gly	Asp	Glu	Leu	Tyr	His	His	Asp	Phe	Leu	Tyr	Gln	Leu	Tyr		
	130					135					140						
Leu	Arg	Ala	Asp	Pro	His	Tyr	Thr	Gly	Arg	Val	Thr	Val	Pro	Val	Leu		
145					150					155					160		
Trp	Asp	Lys	Lys	Asn	Gln	Thr	Ile	Val	Ser	Asn	Glu	Ser	Ala	Glu	Ile		
			165					170						175			
Ile	Arg	Met	Phe	Asn	Thr	Ala	Phe	Asp	Ala	His	Gly	Ala	Arg	Ala	Gly		
		180					185						190				
Asp	Tyr	Tyr	Pro	Val	Glu	Leu	Arg	Glu	Lys	Ile	Asp	Glu	Leu	Asn	Gly		
	195						200					205					
Trp	Ile	Tyr	Asp	Asn	Val	Asn	Asn	Gly	Val	Tyr	Lys	Ala	Gly	Phe	Ala		
	210					215					220						
Thr	Ser	Gln	Glu	Ala	Tyr	Asp	Glu	Ala	Val	Gly	Asn	Val	Phe	Gly	Ser		
225					230					235					240		
Leu	Glu	Arg	Leu	Glu	Gln	Ile	Leu	Gly	Gln	His	Arg	Tyr	Leu	Thr	Gly		
				245					250						255		
Asp	Arg	Leu	Thr	Glu	Ala	Asp	Ile	Arg	Leu	Trp	Thr	Thr	Leu	Ile	Arg		
		260						265					270				
Phe	Asp	Pro	Val	Tyr	Val	Thr	His	Phe	Lys	Cys	Asp	Lys	His	Arg	Ile		
	275						280					285					
Ser	Asp	Tyr	Leu	Asn	Leu	His	Gly	Phe	Leu	Arg	Asp	Ile	Tyr	Gln	Met		
	290					295					300						
Pro	Gly	Ile	Ala	Glu	Thr	Val	Asn	Phe	Asp	His	Ile	Arg	Thr	His	Tyr		
305					310					315					320		
Phe	Arg	Ser	His	Lys	Thr	Ile	Asn	Pro	Thr	Gly	Ile	Ile	Ser	Ile	Gly		
			325						330					335			
Pro	Trp	Gln	Asp	Leu	Asp	Glu	Pro	His	Gly	Arg	Asp	Val	Arg	Phe	Gly		
			340					345					350				

<210> 9743
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9743

Lys	Glu	Glu	Asn	Ala	Met	Pro	Asn	Ile	Val	Leu	Cys	Arg	Ile	Asp	Glu
1				5					10					15	
Arg	Leu	Ile	His	Gly	Gln	Val	Gly	Val	Gln	Trp	Val	Gly	Phe	Ala	Gly
			20					25					30		
Ala	Asn	Leu	Val	Leu	Val	Ala	Asn	Asp	Glu	Val	Ala	Asp	Asp	Pro	Val
		35					40				45				
Gln	Gln	Asn	Leu	Met	Glu	Met	Val	Leu	Ala	Glu	Gly	Ile	Ala	Val	Arg
	50					55					60				
Phe	Trp	Ser	Leu	Gln	Lys	Val	Ile	Asp	Asn	Ile	His	Arg	Ala	Ala	Asp
65					70					75					80
Arg	Gln	Lys	Ile	Leu	Leu	Val	Cys	Lys	Thr	Pro	Ala	Asp	Phe	Leu	Thr
			85						90					95	
Leu	Val	Glu	Gly	Gly	Val	Pro	Ile	Thr	Arg	Ile	Asn	Val	Gly	Asn	Met
			100					105					110		
His	Tyr	Ala	Ser	Gly	Lys	Gln	Gln	Ile	Ala	Lys	Thr	Val	Ser	Val	Asp
		115					120					125			
Ala	Asn	Asp	Ile	Ala	Ala	Phe	Asn	Gly	Leu	Lys	Ala	Ala	Gly	Val	Glu
	130					135					140				
Cys	Phe	Val	Gln	Gly	Val	Pro	Thr	Glu	Thr	Ala	Leu	Asp	Leu	Phe	Lys
145					150					155					160
Leu	Leu														

<210> 9744
 <211> 392
 <212> PRT
 <213> Enterobacter cloacae

<400> 9744

Thr	Cys	Thr	Leu	Ser	Arg	Gly	Ser	Ala	Arg	Arg	Gly	Arg	Asp	Met	Ser
1				5					10					15	
Gln	Leu	Leu	Arg	Ala	Arg	Arg	Leu	Leu	Thr	Gly	Gln	Gly	Trp	Leu	Asp
			20					25					30		
Asp	His	Gln	Leu	Arg	Met	Asp	Arg	Gly	Val	Ile	Thr	Ala	Ile	Glu	Pro
		35					40					45			
Ile	Pro	Ala	Gly	Val	Asn	Thr	Arg	Glu	Ala	Asp	Leu	Leu	Cys	Pro	Ala
	50					55					60				
Tyr	Ile	Asp	Ile	His	Phe	His	Gly	Gly	Ala	Gly	Val	Asp	Val	Met	Asp
65					70					75					80
Asp	Ala	Pro	Asp	Val	Leu	Asp	Arg	Leu	Ala	Leu	His	Lys	Ala	Arg	Glu
			85						90					95	
Gly	Val	Gly	Ala	Phe	Leu	Pro	Thr	Thr	Val	Thr	Ala	Ser	Leu	Glu	Ala
			100					105					110		
Ile	His	Gly	Ala	Leu	Arg	Arg	Ile	Ala	Arg	Arg	Cys	His	Ala	Gly	Gly
		115					120					125			
Pro	Gly	Ala	Gln	Leu	Leu	Gly	Ser	Tyr	Leu	Glu	Gly	Pro	Tyr	Phe	Thr
	130					135					140				
Pro	Gln	Asn	Lys	Gly	Ala	His	Pro	Pro	Glu	Leu	Phe	Arg	Glu	Leu	Asp
145					150					155					160
Leu	Ala	Glu	Leu	Asp	Glu	Leu	Ile	Ala	Val	Ser	Gln	Asn	Thr	Leu	Arg
			165						170					175	
Val	Val	Ala	Leu	Ala	Pro	Glu	Lys	Val	Asp	Ala	Leu	Lys	Ala	Ile	His
			180					185					190		
His	Leu	Lys	Gln	Lys	Gly	Ile	Arg	Val	Met	Leu	Gly	His	Ser	Ala	Ala
		195					200					205			

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Thr Tyr Ala Gln Thr Leu Ala Ala Phe Asp Ala Gly Ala Asp Gly Leu
 210      215      220
Val His Cys Tyr Asn Gly Met Thr Gly Leu His His Arg Glu Pro Gly
225      230      235      240
Met Val Gly Ala Gly Leu Thr Asp Pro Arg Ala Trp Leu Glu Leu Ile
      245      250      255
Ala Asp Gly His His Val His Pro Gly Ala Met Arg Leu Cys Cys Cys
      260      265      270
Cys Ala Lys Asp Arg Thr Val Leu Ile Thr Asp Ala Met Gln Ala Ala
      275      280      285
Gly Met Pro Asp Gly Gly Tyr Thr Leu Cys Gly Glu Ser Val Glu Met
290      295      300
Gln Gly Gly Val Val Arg Thr Ala Ser Gly Gly Leu Ala Gly Ser Thr
305      310      315      320
Leu Ala Leu Asp Ala Ala Val Arg Asn Met Val Glu His Thr Gly Val
      325      330      335
Ala Pro Glu Asn Ala Ile His Met Ala Ser Leu His Pro Ala Arg Leu
      340      345      350
Leu Gly Met Asp His Leu Leu Gly Ser Leu Ala Pro Gly Lys Arg Ala
      355      360      365
Asn Ile Ile Ala Leu Asp Ala Gly Leu His Leu Arg Gln Ile Trp Ile
370      375      380
Gln Gly Gln Ala Leu Ser Leu
385      390

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<210> 9745

<211> 382

<212> PRT

<213> Enterobacter cloacae

<400> 9745

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Val Met Pro Gln Thr Thr Thr Thr Thr Gly Thr Trp Thr Glu Lys Glu
1      5      10      15
Ile Arg Gln Gln Pro Ala Ser Trp Leu Arg Ser Leu Asn Asn Ile Asp
20      25      30
Asn Leu Arg Ala Ser Ile Asp Ser Phe Leu Thr Pro Leu Leu Arg Lys
35      40      45
Pro Asp Leu Arg Ile Val Leu Thr Gly Ala Gly Thr Ser Ala Phe Ile
50      55      60
Gly Asp Ile Ile Ala Pro Trp Leu Ala Ser His Thr Arg Lys Asn Ile
65      70      75      80
Thr Ala Ile Pro Thr Thr Asp Leu Val Thr Asn Pro Met Asp Tyr Phe
85      90      95
Ser Pro Ala His Pro Leu Leu Leu Val Ser Phe Ala Arg Ser Gly Asn
100      105      110
Ser Pro Glu Ser Val Ala Ala Val Glu Leu Ala Asn Gln Phe Val Pro
115      120      125
Glu Cys Tyr His Leu Ser Ile Thr Cys Asn Glu Ala Gly Ser Leu Tyr
130      135      140
Gln Asn Ala Val Asp Ser Asp Asn Ala Cys Ala Leu Leu Met Pro Ala
145      150      155      160
Glu Thr His Asp Arg Gly Phe Ala Met Thr Ser Ser Ile Thr Thr Met
165      170      175
Met Ala Ser Cys Leu Ala Val Phe Ala Pro Glu Thr Ile Asn Ser Lys
180      185      190
Thr Phe Arg Asp Val Ser Asp Arg Cys Gln Ala Ile Leu Thr Ser Leu
195      200      205
Gly Asp Phe Ser Pro Gly Val Phe Gly Asn Glu Pro Trp Lys Arg Ile
210      215      220
Val Tyr Leu Gly Ser Gly Gly Leu Gln Gly Ala Ala Arg Glu Ser Ala
225      230      235      240

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Leu Lys Val Leu Glu Leu Thr Ala Gly Lys Leu Ala Ala Phe Tyr Asp
 245 250 255
 Ser Pro Thr Gly Phe Arg His Gly Pro Lys Ser Leu Val Asp Asn Glu
 260 265 270
 Thr Leu Val Val Phe Val Ser Ser His Pro Tyr Thr Arg Gln Tyr
 275 280 285
 Asp Leu Asp Leu Leu Ala Glu Leu Arg Arg Asp Arg Gln Ala Met Arg
 290 295 300
 Val Val Ala Ile Ala Ala Glu Thr Asp Pro Val Ile Glu Ala Gly Pro
 305 310 315 320
 His Ile Leu Leu Pro Pro Ser Arg Ser Phe Asn Asp Met Glu Gln Ala
 325 330 335
 Phe Cys Phe Leu Met Tyr Ala Gln Val Phe Ala Leu Thr Gln Ser Leu
 340 345 350
 His Val Gly Asn Thr Pro Asp Thr Pro Ser Ala Ser Gly Thr Val Asn
 355 360 365
 Arg Val Val Gln Gly Val Val Ile His Pro Trp Gln Ala
 370 375 380

<210> 9746

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 9746

Glu Asp Arg Leu Met Ser Ile Ile Ser Thr Lys Tyr Leu Leu Gln Asp
 1 5 10 15
 Ala Gln Ala Lys Gly Phe Ala Val Pro Ala Phe Asn Ile His Asn Ala
 20 25 30
 Glu Thr Ile Gln Ala Ile Leu Glu Val Cys Ser Glu Met Arg Ser Pro
 35 40 45
 Val Ile Leu Ala Gly Thr Pro Gly Thr Phe Lys His Ile Ala Leu Glu
 50 55 60
 Glu Ile Tyr Ala Leu Cys Ser Ala Tyr Ser Leu Thr Tyr Asp Met Pro
 65 70 75 80
 Leu Ala Leu His Leu Asp His His Glu Ser Leu Asp Asp Ile Arg Arg
 85 90 95
 Lys Val His Ala Gly Val Arg Ser Ala Met Ile Asp Gly Ser His Tyr
 100 105 110
 Pro Phe Glu Gln Asn Val Lys Leu Val Lys Ser Val Val Asp Phe Cys
 115 120 125
 His Leu Asn Asp Cys Ser Val Glu Ala Glu Leu Gly Arg Leu Gly Gly
 130 135 140
 Val Glu Asp Asp Met Ser Val Asp Ala Glu Ser Ala Phe Leu Thr Asp
 145 150 155 160
 Pro Gln Glu Ala Lys Arg Phe Val Glu Leu Thr Gly Val Asp Ser Leu
 165 170 175
 Ala Val Ala Ile Gly Thr Ala His Gly Leu Tyr Thr Lys Arg Pro Lys
 180 185 190
 Ile Asp Phe Gln Arg Leu Ala Glu Ile Arg Glu Val Met Thr Val Pro
 195 200 205
 Leu Val Leu His Gly Ala Ser Asp Val Pro Asp Glu Asp Val Arg Arg
 210 215 220
 Thr Ile Glu Leu Gly Val Cys Lys Val Asn Val Ala Thr Glu Leu Lys
 225 230 235 240
 Ile Ala Phe Ser Asp Ala Val Lys Ala Trp Phe Ala Glu Asn Pro Gln
 245 250 255
 Gly Asn Asp Pro Arg Phe Tyr Met Arg Val Gly Met Asp Ala Met Lys
 260 265 270
 Glu Val Val Arg Ser Lys Ile Thr Val Cys Gly Ser Ala Asn Arg Leu
 275 280 285

Leu Leu Pro Ala Glu Ala
290 295

<210> 9747
<211> 182
<212> PRT
<213> Enterobacter cloacae

<400> 9747
Arg Arg Val Leu Lys Pro Asp Ser Ala Phe His Tyr Pro Lys Asn Pro
1 5 10 15
Arg Ser Pro Tyr Met Thr Gln Glu Lys Ser Phe Lys Ser Lys Ala Trp
20 25 30
Glu Phe Phe Gln Ser Leu Gly Lys Thr Phe Met Phe Pro Val Ser Leu
35 40 45
Leu Ala Phe Met Gly Leu Leu Leu Gly Ile Gly Ser Ser Val Thr Ser
50 55 60
Pro Ser Thr Ile Lys Ser Phe Pro Phe Leu Gly Gly Glu Leu Thr Gln
65 70 75 80
Leu Thr Phe Gly Phe Ile Ala Met Val Gly Gly Phe Ala Phe Thr Tyr
85 90 95
Leu Pro Leu Met Phe Ala Met Ala Ile Pro Met Gly Leu Ala Arg Arg
100 105 110
Asn Lys Ala Val Gly Ala Phe Ala Gly Phe Val Gly Tyr Met Leu Met
115 120 125
Asn Met Ser Ile Asn Tyr Tyr Leu Thr Ala Thr His Gln Leu Ala Asp
130 135 140
Ala Ala Thr Met Arg Gln Val Gly Gln Ser Ile Val Leu Gly Ile Gln
145 150 155 160
Thr Leu Glu Met Gly Val Leu Gly Gly Ile Val Val Gly Val Ile Thr
165 170 175
Tyr Phe Leu His Glu Asn
180

<210> 9748
<211> 179
<212> PRT
<213> Enterobacter cloacae

<400> 9748
Val Tyr Pro Phe Ser His Tyr Phe Gly Val Leu Met Asn Gln Leu Thr
1 5 10 15
Tyr Leu Gln Gly Tyr Pro Glu His Leu Leu Ser Gln Val Arg Asp Leu
20 25 30
Ile Ala Ala Gly Lys Leu Gly Ala Val Leu Glu Lys Arg Tyr Pro Gly
35 40 45
Thr His Asp Phe Ala Thr Asp Lys Ala Leu Trp Gln Tyr Thr Gln Asp
50 55 60
Leu Lys Asn Gln Tyr Leu Lys Ser Ala Pro Pro Ile Asn Lys Val Met
65 70 75 80
Tyr Asp Asn Lys Ile His Val Leu Lys Asn Ala Leu Gly Leu His Thr
85 90 95
Ala Ile Ser Arg Val Gln Gly Gly Lys Leu Lys Ala Lys Ala Glu Ile
100 105 110
Arg Val Ala Thr Val Phe Arg Asn Ala Pro Glu Ala Phe Leu Arg Met
115 120 125
Ile Val Val His Glu Leu Ala His Leu Lys Glu Lys Glu His Asp Lys
130 135 140
Ala Phe Tyr Ser Leu Cys Cys His Met Glu Pro Gln Tyr His Gln Leu
145 150 155 160
Glu Phe Asp Thr Arg Leu Trp Leu Thr His Leu Ser Leu Lys Ser Asn

Ala Gln 165 170 175

<210> 9749
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 9749
 Pro Phe Leu Phe Phe Met Cys Lys Glu Asn Ser Met His Ser Val Gly
 1 5 10 15
 Thr Pro Met Leu Trp Gly Gly Phe Ala Val Val Val Leu Ile Met Leu
 20 25 30
 Ala Ile Asp Leu Phe Leu Gln Gly Arg Arg Gly Glu His Gly Met Ser
 35 40 45
 Val Lys Gln Ala Ala Val Trp Ser Leu Val Trp Val Thr Leu Ser Leu
 50 55 60
 Leu Phe Cys Ala Ala Phe Trp Trp Tyr Leu Ala Ser Thr Glu Gly Arg
 65 70 75 80
 Ala Val Ala Asp Pro Gln Ala Leu Ala Phe Leu Thr Gly Tyr Leu Ile
 85 90 95
 Glu Lys Ala Leu Ala Val Asp Asn Val Phe Val Trp Leu Met Leu Phe
 100 105 110
 Ser Tyr Phe Ala Val Pro Ala Ala Leu Gln Arg Arg Val Leu Val Tyr
 115 120 125
 Gly Val Leu Gly Ala Ile Val Leu Arg Thr Ile Met Ile Phe Ala Gly
 130 135 140
 Ser Trp Leu Ile Thr Gln Phe Glu Trp Leu Leu Tyr Val Phe Gly Ala
 145 150 155 160
 Phe Leu Leu Phe Thr Gly Val Lys Met Ala Leu Ala Lys Glu Asp Asp
 165 170 175
 Thr Gly Ile Gly Asp Lys Pro Leu Val Lys Trp Phe Arg Gly His Leu
 180 185 190
 Arg Met Thr Asp Lys Ile Glu Ser Glu His Phe Phe Val Arg Lys Asn
 195 200 205
 Gly Leu Leu Phe Ala Thr Pro Leu Leu Leu Val Leu Ile Leu Val Glu
 210 215 220
 Leu Ser Asp Val Ile Phe Ala Val Asp Ser Ile Pro Ala Ile Phe Ala
 225 230 235 240
 Val Thr Thr Asp Pro Phe Ile Val Leu Thr Ser Asn Leu Phe Ala Ile
 245 250 255
 Leu Gly Leu Arg Ala Met Tyr Phe Leu Leu Ala Gly Ala Ala Glu Arg
 260 265 270
 Phe Ser Met Leu Lys Tyr Gly Leu Ser Val Ile Leu Val Phe Ile Gly
 275 280 285
 Ile Lys Met Leu Ile Val Asp Phe Tyr His Ile Pro Ile Ala Ile Ser
 290 295 300
 Leu Gly Val Val Phe Gly Ile Leu Leu Val Thr Leu Ile Ile Asn Thr
 305 310 315 320
 Trp Val Asn Arg Gln His Asp Lys Lys Gln Gln Val
 325 330

<210> 9750
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 9750
 Gln Ile Ile Arg Arg Thr Leu Pro Gly Ala His Met Glu Ile Thr Glu
 1 5 10 15

```

Ser Arg Arg Leu Tyr Gln Gln Leu Ala Ala Glu Leu Lys Asp Arg Ile
      20      25      30
Glu Gln Gly Val Tyr Leu Val Gly Asp Lys Leu Pro Ala Glu Arg Phe
      35      40      45
Ile Ala Asp Glu Lys Ser Val Ser Arg Thr Val Val Arg Glu Ala Ile
      50      55      60
Ile Met Leu Glu Val Glu Gly Tyr Val Glu Val Arg Lys Gly Ser Gly
65      70      75      80
Ile His Val Ile Ser Ser Gln Ala Lys His Ser Pro Thr Pro Asp Glu
      85      90      95
Ser Leu Glu Phe Ala Ser Tyr Gly Pro Phe Glu Leu Leu Gln Ala Arg
      100     105     110
Gln Leu Ile Glu Ser Asn Ile Ala Glu Phe Ala Ala Thr Gln Val Thr
      115     120     125
Lys Gln Asp Ile Met Lys Leu Met Glu Ile Gln Asp His Ala Arg Lys
      130     135     140
Glu Lys Cys Phe Arg Asp Ser Glu Trp Asp Leu Gln Phe His Val Gln
145     150     155     160
Val Ala Leu Ala Thr Gln Asn Thr Ala Leu Ala Ala Ile Val Glu Lys
      165     170     175
Met Trp Thr Gln Arg Val His Asn Pro Tyr Trp Lys Lys Leu His Asp
      180     185     190
His Ile Asp Ser Arg Thr Val Asp Asn Trp Cys Asp Asp His Asp Gln
      195     200     205
Ile Leu Lys Ala Leu Ile Arg Lys Asp Pro His Ala Ala Lys Leu Ala
      210     215     220
Met Trp Gln His Leu Glu Asn Thr Lys Gln Met Leu Phe Asn Glu Thr
225     230     235     240
Ser Asp Asp Phe Glu Phe Asn Ala Asp Arg Tyr Leu Phe Ala Asp Asn
      245     250     255
Pro Val Val His Leu Asp Thr Ala Thr Asn Leu Ala Lys
      260     265     270

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<210> 9751

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9751

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Met Glu Leu Leu Thr Gln Leu Leu Asn Ala Leu Trp Ala Gln Asp Phe
1      5      10      15
Glu Thr Leu Ala Asn Pro Ser Met Ile Gly Met Leu Tyr Phe Val Leu
      20      25      30
Phe Met Ile Leu Phe Leu Glu Asn Gly Leu Leu Pro Ala Ala Phe Leu
      35      40      45
Pro Gly Asp Ser Leu Leu Val Leu Val Gly Val Leu Cys Ala Lys Gly
      50      55      60
Ala Met Ala Phe Pro Gln Thr Val Leu Leu Leu Thr Ile Ala Ala Ser
65      70      75      80
Leu Gly Cys Trp Val Ser Tyr Ile Gln Gly Arg Trp Leu Gly Asn Thr
      85      90      95
Arg Ile Val Gln Asn Trp Leu Ser His Leu Pro Ala His Tyr His Gln
      100     105     110
Arg Ala His His Leu Phe His Lys His Gly Leu Ser Ala Leu Leu Ile
      115     120     125
Gly Arg Phe Ile Ala Phe Val Arg Thr Leu Leu Pro Thr Ile Ala Gly
      130     135     140
Leu Ser Gly Leu Ser Ser Thr Arg Phe Gln Phe Phe Asn Trp Met Ser
145     150     155     160
Gly Leu Leu Trp Val Leu Ile Leu Thr Thr Leu Gly Tyr Ala Leu Gly
      165     170     175

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Lys Thr Pro Val Phe Met Lys Tyr Glu Asp Gln Leu Met Ser Cys Leu
 180 185 190
 Met Leu Leu Pro Val Val Leu Leu Val Phe Gly Leu Val Gly Ser Leu
 195 200 205
 Val Val Leu Trp Lys Lys Lys Tyr Gly Ala Arg Gly
 210 215 220

<210> 9752

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9752

Arg Lys Ser Gln Gln Glu Arg Ile Met Ser Lys Asp Thr Thr Ser Glu
 1 5 10 15
 Asn Leu Arg Ala Glu Leu Lys Ser Leu Ala Asp Thr Leu Glu Glu Val
 20 25 30
 Leu Asn Ser Ser Ala Asp Lys Ser Lys Glu Glu Val Ser Lys Leu Arg
 35 40 45
 Ser Lys Ala Glu Gln Ala Leu Lys Glu Ser Arg Tyr Arg Leu Gly Glu
 50 55 60
 Thr Gly Asp Ala Leu Ala Lys Gln Thr Arg Glu Ala Ala Arg Ala
 65 70 75 80
 Asp Glu Tyr Val Arg Asp Asn Pro Trp Thr Gly Val Gly Ile Gly Ala
 85 90 95
 Ala Val Gly Val Val Leu Gly Val Leu Leu Thr Arg Arg
 100 105 110

<210> 9753

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9753

Leu Ile Lys Arg Gln Gly Lys Met Asp Trp Tyr Leu Lys Val Leu Arg
 1 5 10 15
 Asn Tyr Phe Gly Phe Gly Gly Arg Ala Arg Arg Lys Glu Tyr Trp Met
 20 25 30
 Phe Val Leu Val Asn Phe Val Leu Ile Met Val Leu Gly Ile Val Asp
 35 40 45
 Lys Ile Leu Gly Trp Glu Arg Glu Gly Gly Glu Gly Ile Leu Thr Thr
 50 55 60
 Ile Tyr Gly Val Leu Val Leu Leu Pro Ser Trp Ala Val Leu Phe Arg
 65 70 75 80
 Arg Leu His Asp Thr Asp Arg Ser Ala Trp Trp Leu Leu Leu Leu Leu
 85 90 95
 Ile Pro Leu Ile Gly Trp Ile Val Ile Leu Ile Phe Asn Cys Gln Ser
 100 105 110
 Gly Thr Pro Gly Glu Asn Arg Phe Gly Pro Asp Pro Lys Ala Ser Ala
 115 120 125

<210> 9754

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9754

Arg Arg Pro Glu Trp Asn Ala Ser Phe Arg Ala Phe Gln Gln Arg Leu
 1 5 10 15

Leu Trp Ile Ser Leu Asn Cys Ser Glu Gly Phe Thr Met Glu Ile Ser
 20 25 30
 Leu Leu Gln Ala Phe Ala Leu Gly Leu Leu Ala Phe Ile Ala Gly Leu
 35 40 45
 Asp Met Phe Asn Gly Leu Thr His Met His Arg Pro Val Val Leu Gly
 50 55 60
 Pro Leu Val Gly Leu Ile Leu Gly Asp Leu His Thr Gly Ile Leu Thr
 65 70 75 80
 Gly Gly Thr Leu Glu Leu Val Trp Met Gly Leu Ala Pro Leu Ala Gly
 85 90 95
 Ala Gln Pro Pro Asn Val Ile Ile Gly Thr Ile Val Gly Thr Thr Phe
 100 105 110
 Ala Ile Thr Thr Gly Val Lys Pro Asp Val Ala Val Gly Val Ala Val
 115 120 125
 Pro Phe Ala Val Ala Val Gln Met Gly Ile Thr Phe Leu Phe Ser Val
 130 135 140
 Met Ser Gly Val Met Ser Arg Cys Asp Arg Met Ala Ala Asn Ala Asp
 145 150 155 160
 Thr Arg Gly Ile Glu Arg Val Asn Tyr Leu Ala Leu Leu Ala Leu Gly
 165 170 175
 Val Phe Tyr Phe Leu Cys Ala Phe Leu Pro Ile Tyr Phe Gly Ala Glu
 180 185 190
 His Ala Lys Thr Ala Ile Asp Val Leu Pro Glu Arg Leu Ile Asp Gly
 195 200 205
 Leu Gly Val Ala Gly Gly Ile Met Pro Ala Ile Gly Phe Ala Val Leu
 210 215 220
 Leu Lys Ile Met Met Lys Asn Val Tyr Ile Pro Tyr Phe Ile Ile Gly
 225 230 235 240
 Phe Val Ala Ala Ala Trp Leu Lys Leu Pro Val Leu Ala Ile Ala Ala
 245 250 255
 Ala Ala Leu Ala Met Ala Leu Ile Asp Leu Leu Arg Lys Ser Pro Glu
 260 265 270
 Pro Thr Ala Pro Ala Ala Gln Lys Glu Glu Phe Glu Asp Gly Ile
 275 280 285

<210> 9755

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9755

Ile Leu Ser Leu Pro Val Lys Ser Lys Glu Val Ala Met Leu Gly Ile
 1 5 10 15
 Ile Leu Thr Gly His Gly Gly Phe Ala Ser Gly Leu Gln Gln Ala Met
 20 25 30
 Lys Gln Ile Leu Gly Glu Gln Pro Gln Phe Ile Ala Ile Asp Phe Pro
 35 40 45
 Glu Ser Ser Thr Thr Ala Arg Leu Thr Ala Gln Leu Glu Gln Ala Val
 50 55 60
 Asn Glu Leu Asp Ala Glu His Asp Ile Val Phe Leu Thr Asp Leu Leu
 65 70 75 80
 Gly Gly Thr Pro Phe Arg Val Ala Ser Thr Leu Ala Met Gln Arg Pro
 85 90 95
 Gly Ser Glu Val Ile Thr Gly Thr Asn Leu Gln Leu Leu Leu Glu Met
 100 105 110
 Val Leu Glu Arg Asp Gly Leu Ser Ser Glu Ala Phe Arg Leu Gln Ala
 115 120 125
 Leu Glu Cys Gly His Arg Gly Leu Thr Ser Leu Val Asp Glu Leu Ala
 130 135 140
 Arg Cys Arg Glu Glu Ala Pro Ala Glu Glu Gly Ile
 145 150 155

<210> 9756
 <211> 614
 <212> PRT
 <213> Enterobacter cloacae

<400> 9756

Arg	Glu	Ala	Arg	Leu	Asn	Ser	His	His	Gly	Pro	Phe	Ala	Met	Val	Asn
1				5					10					15	
Asn	Met	Thr	Asp	Leu	Thr	Ala	Gln	Glu	Ala	Ala	Trp	Gln	Thr	Arg	Asp
			20					25					30		
His	Leu	Asp	Asp	Pro	Val	Ile	Gly	Glu	Leu	Arg	Asn	Arg	Phe	Gly	Pro
		35					40					45			
Asp	Ala	Phe	Thr	Val	Gln	Ala	Thr	Arg	Thr	Gly	Val	Pro	Val	Val	Trp
	50					55					60				
Val	Lys	Arg	Glu	Gln	Leu	Leu	Glu	Val	Val	Asp	Phe	Leu	Lys	Lys	Leu
65				70					75						80
Pro	Lys	Pro	Tyr	Val	Met	Leu	Phe	Asp	Leu	His	Gly	Met	Asp	Glu	Arg
				85				90					95		
Leu	Arg	Thr	His	Arg	Gln	Gly	Leu	Pro	Ala	Ala	Asp	Phe	Ser	Val	Phe
			100					105					110		
Tyr	His	Leu	Ile	Ser	Ile	Asp	Arg	Asn	Thr	Asp	Ile	Met	Leu	Lys	Val
		115					120					125			
Ala	Leu	Ser	Glu	Asn	Asp	Met	His	Leu	Pro	Thr	Ile	Thr	Lys	Leu	Phe
	130					135					140				
Pro	Asn	Ala	Asn	Trp	Tyr	Glu	Arg	Glu	Thr	Trp	Glu	Met	Phe	Gly	Met
145				150						155					160
Thr	Phe	Asp	Gly	His	Pro	His	Leu	Thr	Arg	Ile	Met	Met	Pro	Gln	Thr
				165					170					175	
Trp	Thr	Gly	His	Pro	Leu	Arg	Lys	Asp	Tyr	Pro	Ala	Arg	Ala	Thr	Glu
			180					185					190		
Phe	Asp	Pro	Phe	Glu	Leu	Thr	Lys	Ala	Lys	Gln	Asp	Leu	Glu	Met	Glu
		195					200				205				
Ala	Leu	Thr	Phe	Lys	Pro	Glu	Asp	Trp	Gly	Met	Lys	Arg	Gly	Thr	Glu
	210					215				220					
Asn	Glu	Asp	Phe	Met	Phe	Leu	Asn	Leu	Gly	Pro	Asn	His	Pro	Ser	Ala
225				230					235						240
His	Gly	Ala	Phe	Arg	Ile	Ile	Leu	Gln	Leu	Asp	Gly	Glu	Glu	Ile	Val
				245					250					255	
Asp	Cys	Val	Pro	Asp	Ile	Gly	Tyr	His	His	Arg	Gly	Ala	Glu	Lys	Met
			260				265						270		
Gly	Glu	Arg	Gln	Ser	Trp	His	Ser	Tyr	Ile	Pro	Tyr	Thr	Asp	Arg	Ile
		275					280					285			
Glu	Tyr	Leu	Gly	Gly	Cys	Val	Asn	Glu	Met	Pro	Tyr	Val	Leu	Ala	Val
	290					295				300					
Glu	Lys	Leu	Ala	Gly	Ile	Thr	Val	Pro	Asp	Arg	Val	Asn	Val	Ile	Arg
305				310					315						320
Val	Met	Leu	Ser	Glu	Leu	Phe	Arg	Ile	Asn	Ser	His	Leu	Leu	Tyr	Ile
				325					330					335	
Ser	Thr	Phe	Ile	Gln	Asp	Val	Gly	Ala	Met	Thr	Pro	Val	Phe	Phe	Ala
			340				345						350		
Phe	Thr	Asp	Arg	Gln	Lys	Ile	Tyr	Asp	Leu	Val	Glu	Ala	Ile	Thr	Gly
		355					360					365			
Phe	Arg	Met	His	Pro	Ala	Trp	Phe	Arg	Ile	Gly	Gly	Val	Ala	His	Asp
	370					375				380					
Leu	Pro	Arg	Gly	Trp	Asp	Arg	Leu	Leu	Arg	Glu	Phe	Leu	Asp	Trp	Met
385				390					395						400
Pro	Lys	Arg	Leu	Ala	Ser	Tyr	Glu	Lys	Ala	Ala	Leu	Arg	Asn	Ser	Ile
				405					410					415	
Leu	Lys	Gly	Arg	Ser	Gln	Gly	Val	Ala	Ala	Tyr	Gly	Ala	Lys	Glu	Ala
			420					425					430		

Leu Glu Trp Gly Thr Thr Gly Ala Gly Leu Arg Ala Thr Gly Ile Asp
 435 440 445
 Phe Asp Val Arg Lys Ala Arg Pro Tyr Ser Gly Tyr Glu Asn Phe Asp
 450 455 460
 Phe Glu Val Pro Val Gly Gly Gly Val Ser Asp Cys Tyr Thr Arg Val
 465 470 475 480
 Met Leu Lys Val Glu Glu Leu Arg Gln Ser Leu Arg Ile Leu Glu Gln
 485 490 495
 Cys Leu Asn Asn Met Pro Glu Gly Pro Phe Lys Ala Asp His Pro Leu
 500 505 510
 Thr Thr Pro Pro Pro Lys Glu Arg Thr Leu Gln His Ile Glu Thr Leu
 515 520 525
 Ile Thr His Phe Leu Gln Val Ser Trp Gly Pro Val Met Pro Ala Gln
 530 535 540
 Glu Ser Phe Gln Met Ile Glu Ala Thr Lys Gly Ile Asn Ser Tyr Tyr
 545 550 555 560
 Leu Thr Ser Asp Gly Ser Thr Met Ser Tyr Arg Thr Arg Val Arg Thr
 565 570 575
 Pro Ser Phe Ala His Leu Gln Gln Ile Pro Ala Ala Ile Arg Gly Ser
 580 585 590
 Leu Val Ser Asp Leu Ile Val Tyr Leu Gly Ser Ile Asp Phe Val Met
 595 600 605
 Ser Asp Val Asp Arg
 610

<210> 9757

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9757

Pro Ser Gly Gly Lys Ser Met Ser Trp Leu Thr Pro Asp Leu Ile Asp
 1 5 10 15
 Ile Leu Leu Ser Ile Leu Lys Ala Val Val Ile Leu Leu Val Val Val
 20 25 30
 Thr Cys Gly Ala Phe Met Ser Phe Gly Glu Arg Arg Leu Leu Gly Leu
 35 40 45
 Phe Gln Asn Arg Tyr Gly Pro Asn Arg Val Gly Trp Gly Gly Ser Leu
 50 55 60
 Gln Leu Val Ala Asp Met Ile Lys Met Phe Phe Lys Glu Asp Trp Val
 65 70 75 80
 Pro Arg Phe Ser Asp Arg Val Ile Phe Thr Leu Ala Pro Met Ile Ala
 85 90 95
 Phe Thr Ser Leu Leu Leu Ala Phe Ala Ile Val Pro Val Ser Pro Thr
 100 105 110
 Trp Val Val Ala Asp Leu Asn Ile Gly Ile Leu Phe Phe Leu Met Met
 115 120 125
 Ala Gly Leu Ala Val Tyr Ala Val Leu Phe Ala Gly Trp Ser Ser Asn
 130 135 140
 Asn Lys Tyr Ser Leu Leu Gly Ala Met Arg Ala Ser Ala Gln Thr Leu
 145 150 155 160
 Ser Tyr Glu Val Phe Leu Gly Leu Ser Leu Met Gly Val Val Ala Gln
 165 170 175
 Ala Gly Ser Phe Asn Met Thr Asp Ile Val Asn Asn Gln Ala Asp Ile
 180 185 190
 Trp Asn Val Ile Pro Gln Phe Phe Gly Phe Ile Thr Phe Ala Ile Ala
 195 200 205
 Gly Val Ala Val Cys His Arg His Pro Phe Asp Gln Pro Glu Ala Glu
 210 215 220
 Gln Glu Leu Ala Asp Gly Tyr His Ile Glu Tyr Ser Gly Met Lys Phe
 225 230 235 240

Gly Leu Phe Phe Val Gly Glu Tyr Ile Gly Ile Val Thr Ile Ser Ala
 245 250 255
 Leu Met Val Thr Leu Phe Phe Gly Gly Trp His Gly Pro Phe Leu Pro
 260 265 270
 Pro Phe Ile Trp Phe Ala Leu Lys Thr Ala Phe Phe Met Met Met Phe
 275 280 285
 Ile Leu Ile Arg Ala Ala Leu Pro Arg Pro Arg Tyr Asp Gln Val Met
 290 295 300
 Ser Phe Gly Trp Lys Val Cys Leu Pro Leu Thr Leu Val Asn Leu Leu
 305 310 315 320
 Val Thr Ala Ala Val Ile Leu Trp Gln Gln Pro
 325 330

<210> 9758

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9758

Phe Pro Val Arg Ala Asn Thr Arg Asn Ile Thr Ser Thr Gly Trp Arg
 1 5 10 15
 Val Trp Gln Ser Thr Ala Lys Ile Arg Ala Lys Gln Arg Thr Lys Pro
 20 25 30
 Ser Leu Ser Thr Ser Arg Ala Cys Tyr Arg Lys Glu Arg Ala Met Glu
 35 40 45
 Phe Ala Phe Tyr Ile Cys Gly Leu Ile Ala Ile Leu Ala Thr Leu Arg
 50 55 60
 Val Ile Thr His Thr Asn Pro Val His Ala Leu Leu Tyr Leu Ile Ile
 65 70 75 80
 Ser Leu Leu Ala Ile Ser Gly Val Phe Phe Ala Leu Gly Ala His Phe
 85 90 95
 Ala Gly Ala Leu Glu Ile Ile Val Tyr Ala Gly Ala Ile Met Val Leu
 100 105 110
 Phe Val Phe Val Val Met Met Leu Asn Leu Gly Gly Ser Glu Ile Glu
 115 120 125
 Gln Glu Arg Gln Trp Leu Lys Pro Gln Val Trp Ile Gly Pro Ala Ile
 130 135 140
 Leu Ser Ala Ile Met Leu Ala Val Ile Val Tyr Ala Ile Leu Gly Val
 145 150 155 160
 Asn Asp Gln Gly Ile Asp Gly Thr Pro Ile Ser Ala Lys Ala Val Gly
 165 170 175
 Ile Thr Leu Phe Gly Pro Tyr Val Leu Ala Val Glu Leu Ala Ser Met
 180 185 190
 Leu Leu Leu Ala Gly Leu Val Val Ala Phe His Val Gly Arg Glu Glu
 195 200 205
 Arg Val Gly Glu Val Leu Ser Asn Arg Thr Asp Asp Arg Ala Lys Arg
 210 215 220
 Lys Thr Glu Glu Arg Ala
 225 230

<210> 9759

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9759

Gln Gly Glu Val Arg Val His Ser Ile Phe Leu Ala Leu Gln Ser Leu
 1 5 10 15
 Arg Thr Gln Leu Ala Gln Ala Leu Pro Ala Ile Pro Gly Leu Arg His
 20 25 30
 Phe Asp Val Ser Phe Pro Leu Asn Asp Ala Phe Asp Pro Leu Ala Trp

		35					40				45			
Leu	Gly	Val	Gln	Arg	Cys	Tyr	Pro	Gln	Phe	Tyr	Trp	Gln	Gln	Arg
	50					55					60			
Gly	Asp	Glu	Glu	Leu	Ala	Leu	Gly	Ser	Leu	Ala	Gln	Phe	Asp	Ser
65					70					75				80
Leu	Ala	Ser	Ala	Ser	Arg	Phe	Leu	His	Ala	His	Asp	Val	Ala	Asn
				85					90					95
Thr	Arg	Ile	Cys	Gly	Leu	Asn	Ala	Phe	Asn	Pro	Ala	Gln	Gly	Lys
			100					105					110	
Phe	Leu	Pro	Arg	Leu	Leu	Trp	Arg	Arg	Ser	Gly	Gly	Val	Ala	Thr
		115					120					125		
Arg	Leu	Gln	Leu	Trp	Ser	Glu	Thr	Ser	Leu	Arg	Glu	Asp	Ala	Arg
	130					135					140			
Ala	Leu	Asn	Phe	Val	Asp	Asn	Leu	Arg	Asp	Ala	Ala	Pro	Ile	Arg
145					150				155					160
Leu	Ser	Val	Gln	Ile	Val	Gln	Glu	Thr	His	His	Pro	Glu	Lys	Pro
			165						170					175
Trp	Leu	Ala	Leu	Ile	Arg	Gln	Ala	Thr	Asp	Thr	Leu	Ala	Arg	Gly
		180						185					190	
Phe	Glu	Lys	Val	Val	Leu	Ala	Arg	Ala	Thr	Asp	Val	Gln	Cys	Gln
	195						200					205		
Pro	Val	Asn	Ala	Ile	Ala	Leu	Met	Ala	Ala	Ser	Arg	Ala	Leu	Asn
	210					215					220			
Asn	Cys	Tyr	His	Phe	Cys	Met	Val	Phe	Asp	Ala	Ser	Asn	Ala	Phe
225					230				235					240
Gly	Ser	Thr	Pro	Glu	Arg	Leu	Trp	Arg	Arg	Arg	Gly	Thr	Leu	Leu
			245						250					255
Thr	Glu	Ala	Leu	Ala	Gly	Thr	Val	Ala	Ser	His	Ser	Asp	Asp	Lys
		260						265					270	
Ala	Gln	Arg	Leu	Gly	Asp	Trp	Leu	Met	Asn	Asp	Asp	Lys	Asn	Gln
	275						280					285		
Glu	Asn	Met	Leu	Val	Val	Glu	Asp	Ile	Cys	Gln	Arg	Leu	Gln	His
	290					295				300				
Thr	Arg	Thr	Leu	Glu	Ile	Leu	Pro	Ala	Gln	Val	Leu	Arg	Leu	Arg
305					310					315				320
Val	Gln	His	Leu	Arg	Arg	Cys	Ile	Trp	Thr	Glu	Leu	Lys	Gln	Pro
			325						330					335
Asp	Glu	Gln	Cys	Leu	His	Ile	Leu	Gln	Pro	Thr	Ala	Ala	Val	Ala
		340						345					350	
Leu	Pro	Arg	Gln	Ala	Ala	Arg	Glu	Phe	Ile	Ala	Lys	Val	Glu	Pro
	355						360					365		
Asp	Arg	Glu	Trp	Tyr	Ala	Gly	Ser	Ala	Gly	Tyr	Leu	Ser	Arg	Asp
	370					375					380			
Ser	Glu	Phe	Cys	Val	Ala	Leu	Arg	Ser	Ala	Arg	Val	His	Asn	Ala
385					390					395				400
Leu	Arg	Leu	Tyr	Ala	Gly	Ala	Gly	Ile	Val	Ser	Gly	Ser	Asp	Pro
			405						410					415
Gln	Glu	Trp	Gln	Glu	Ile	Glu	Asn	Lys	Ala	Ala	Gly	Leu	Arg	Ser
			420					425					430	
Leu	Leu	Arg	Asp											
		435												

<210> 9760

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 9760

Arg	Arg	Ala	Glu	Ala	Ala	Thr	Ser	Ala	Cys	Ala	Gly	Glu	Ser	Pro	Val
1				5					10					15	
Ile	Leu	Ala	Gly	Val	Ser	Gln	Pro	Gly	Asn	Pro	Gly	Tyr	Pro	Trp	Leu

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<210> 9761
<211> 539
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Asn	Ala	Asp	Arg 5	Gln	Pro	Arg	Gln	Gly 10	Ala	Arg	Ala	Gly	Cys 15	Gly
Gly	Pro	Cys	Arg	Arg	Ala	Asp	Gly	Gly 25	Asp	Gln	Phe	Ile	His 30	Arg	Ile
Gln	Pro	Arg	Pro	Asp	Ala	Ala	Gly 40	Ala	His	Arg	Cys	Met 45	Val	Asn	Ala
Gly	His 50	Arg	Ser	Arg	Ser	Arg 55	Tyr	Ala	Lys	Pro	Asp 60	Ala	Gly	Pro	Ala
Asp 65	Ser	Pro	Val	Ala	Trp 70	Gln	His	Leu	Ala 75	Val	Pro	Arg	Arg	Arg	Gly 80
Ala	Gly	Ala	Ile	Ala 85	Met	Ser	Phe	Thr	Asp 90	Trp	Pro	Trp	Arg	His 95	Trp
Arg	Thr	Arg	Arg	Ala 100	Asp	Lys	Pro	Ala 105	Leu	Arg	Leu	Asp	Asp 110	Val	Thr
Leu	Ser	Trp	Thr	Gln	Leu	Gly	Lys 120	Arg	Ile	Asp	Arg	Leu	Ala 125	Ala	Gly
Phe 130	Gln	Ser	Gln	Gly	Val	Ala 135	Asp	Gly	Asp	Gly	Val 140	Met	Leu	Leu	Ala
His 145	Asn	His	Pro	Gln	Thr 150	Leu	Leu	Ala	Trp	Leu 155	Ala	Leu	Leu	Gln	Cys 160
Gly	Ala	Arg	Ile	Leu	Pro	Val	Asn	Pro	Gln	Leu	Pro	Arg	Pro	Leu	Leu

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<210> 9762
<211> 171
<212> PRT
<213> Enterobacter cloacae
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Asp	Arg	Glu	Gln	Thr	Asn	His	His	Asp	Asp	Lys	Leu	His	Ala	Val	Gly
1				5					10					15	
Glu	Met	Asn	Ala	Val	Glu	Gly	Lys	Thr	Ile	Asn	Pro	Gly	Val	Gly	Ile
			20					25					30		
His	Ala	Asp	Gly	Gly	Gln	Thr	Glu	Ala	Asn	Gln	Arg	Arg	Gln	Lys	Arg
		35					40					45			
Leu	Gln	Arg	Ile	Leu	Arg	His	His	Ala	Ala	Glu	Thr	Gly	Asp	Gly	Glu

50		55		60
His 65	His 65	Gln 70	Gly 70	Lys 75
Gly 65	Gln 65	Arg 65	Arg 65	Gly 65
Ala 100	Lys 100	Glu 100	Arg 100	Ala 100
Ser 115	Leu 115	Leu 115	Arg 115	His 115
Gly 130	Ile 130	Ala 130	Gly 130	His 130
Phe 145	Ala 145	Ala 145	Asp 145	Ile 145
Arg 165	Gln 165	Val 165	Gln 165	Arg 165

<210> 9763

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 9763

Asn 1	Asn 1	Asn 1	Leu 5	Ser 5	Phe 5	Pro 5	Phe 5	His 10	Cys 10	Asp 10	Thr 15	Asn 15	Phe 15	Thr 15	Gly 15
Cys 20	Asp 20	Met 20	Arg 20	Leu 20	Leu 20	Leu 20	Ala 20	Glu 25	Asp 25	Asn 25	Arg 30	Glu 30	Leu 30	Ala 30	His 30
Trp 35	Leu 35	Glu 35	Lys 35	Ala 35	Leu 35	Val 35	Gln 40	Asn 40	Gly 40	Phe 45	Ala 45	Val 45	Asp 45	Cys 45	Val 45
Asn 50	Asp 50	Gly 50	Arg 50	Ala 50	Ala 50	Asp 55	His 55	Leu 55	Leu 55	Gln 60	Gly 60	Glu 60	Asn 60	Tyr 60	Ala 60
Val 65	Ala 65	Ile 65	Leu 65	Asp 65	Ile 65	Gly 70	Met 70	Pro 70	Gly 75	Phe 75	Asp 75	Gly 80	Leu 80	Glu 80	Val 80
Val 85	His 85	Arg 85	Leu 85	Arg 85	Lys 85	Arg 85	Gly 90	Gln 90	Thr 90	Leu 90	Pro 95	Val 95	Leu 95	Phe 95	Leu 95
Thr 100	Ala 100	Arg 100	Ser 100	Asn 100	Val 100	Ala 105	Asp 105	Arg 105	Val 105	Lys 110	Gly 110	Leu 110	Asn 110	Ala 110	Gly 110
Ala 115	Asp 115	Asp 115	Tyr 115	Leu 115	Pro 115	Lys 120	Pro 120	Phe 120	Glu 120	Leu 125	Glu 125	Glu 125	Leu 125	Asp 125	Ala 125
Arg 130	Leu 130	Arg 130	Ala 130	Leu 130	Leu 130	Arg 135	Arg 135	Ser 135	Glu 140	Gly 140	Arg 140	Thr 140	Gln 140	Glu 140	Arg 140
Gln 145	Arg 145	Leu 145	Gly 145	Glu 145	Leu 145	Glu 150	Tyr 150	Asp 155	Asp 155	Glu 155	Gly 160	Phe 160	Phe 160	Leu 160	Leu 160
Arg 165	Asp 165	Glu 165	Pro 165	Leu 165	Ser 165	Leu 170	Thr 170	Pro 170	Arg 170	Glu 175	Leu 175	Ser 175	Leu 175	Leu 175	Lys 175
Val 180	Leu 180	Met 180	His 180	Arg 180	Arg 180	Thr 185	Arg 185	Pro 185	Val 185	Ser 190	Arg 190	Gln 190	Gln 190	Leu 190	Phe 190
Asp 195	Gln 195	Val 195	Phe 195	Ser 195	Leu 195	Asn 200	Asp 200	Asp 200	Val 200	Ser 205	Pro 205	Glu 205	Ser 205	Ile 205	Asp 205
Leu 210	Tyr 210	Ile 210	His 210	Arg 210	Leu 210	Arg 215	Lys 215	Lys 215	Leu 220	Thr 220	Gly 220	Ser 220	Gly 220	Val 220	Arg 220
Ile 225	Thr 225	Thr 225	Leu 225	Arg 225	Gly 230	Leu 230	Gly 230	Tyr 235	Val 235	Leu 235	Glu 240	Cys 240	Gly 240	Asp 240	Glu 240
Val 225	Gly 225														

<210> 9764

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 9764

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Arg Arg Lys Gln Pro Val Met Ile Glu Gly Asp Asp Val Leu Leu Gly
1      5      10      15
Glu Leu Cys Ala Asn Leu Leu Glu Asn Ala Ile Lys Tyr Thr Pro Glu
20      25      30
Gln Gly Ile Val Thr Val Tyr Leu Arg Thr Ala Asn Asp Ala Val Glu
35      40      45
Leu Ser Val Glu Asp Ser Gly Pro Gly Ile Ala Glu Asp Gln Ile Ser
50      55      60
Gln Ala Met Leu Pro Phe His Arg Leu Glu Asn Val Gly Asp Ala Ala
65      70      75      80
Gly Ser Gly Ile Gly Leu Ala Leu Ala Asn Asp Ile Ala Arg Leu His
85      90      95
Arg Ser His Leu Gln Leu Met Pro Ser Glu Asn Leu Gly Gly Leu Ser
100      105      110
Val Lys Met Arg Phe Leu Met Leu Ile
115      120

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<210> 9765

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 9765

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Met Pro Ile Leu Ser Asn Arg Tyr Lys Leu Ile Ala Cys Arg Thr Trp
1      5      10      15
Ser Pro Leu Ile Thr Gln Ala Gly Arg Leu Lys Ser Arg Gly Phe Trp
20      25      30
Thr Ser Leu Asn Lys Leu Cys Gly Ile Thr Thr Met Lys Lys Val Ala
35      40      45
Leu Met Gly Leu Ser Gly Leu Met Phe Val Ser Ala Ala Asn Ala
50      55      60
Ile Ser Phe Asn Gly Ser Ala Gly Gln Asp Tyr Thr His Leu Gly Phe
65      70      75      80
Gly Leu Gly Thr Asp Ser Ala Gly Leu Ala Met Thr Gly Gly Trp Thr
85      90      95
His Asn Asp Asp Asp Gly Asp Ala Ala Ser Leu Gly Leu Gly Phe Asn
100      105      110
Val Pro Leu Gly Pro Phe Leu Ala Thr Val Gly Gly Lys Gly Ile Tyr
115      120      125
Thr Asn Pro Asn Asp Gly Asp Glu Gly Tyr Ala Ala Val Gly Gly
130      135      140
Gly Leu Gln Trp Lys Ile Gly Asp Ser Phe Gly Leu Phe Gly Glu Tyr
145      150      155      160
Tyr Tyr Ser Pro Asp Ser Leu Ser Ser Gly Ile Asp Ser Tyr Gln Glu
165      170      175
Ala Asn Ala Gly Ala Arg Trp Thr Ile Met Arg Pro Ile Thr Ile Glu
180      185      190
Ala Gly Tyr Arg Tyr Leu Asn Leu Ala Gly Lys Asp Gly Asn Arg Asp
195      200      205
Asn Ala Leu Ala Asp Gly Pro Tyr Val Gly Val Ser Ala Gly Phe
210      215      220

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<210> 9766

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9766

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Lys Ala Thr Glu Ala Val Met Leu Ser Ile Phe Lys Pro Ala Pro His
1      5      10      15
Arg Ala Arg Leu Pro Glu Ala Glu Ile Asp Pro Leu Tyr Arg Arg Leu

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<210> 9767
<211> 148
<212> PRT
<213> Enterobacter cloacae
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<400> 9767

Ala	Met	Ser	Met	Ser	Thr	Ser	Thr	Glu	Val	Ile	Ala	His	His	Trp	Ala
1			5					10						15	
Phe	Ala	Ile	Phe	Leu	Ile	Val	Ala	Ile	Gly	Leu	Cys	Cys	Leu	Met	Leu
		20						25					30		
Val	Gly	Gly	Trp	Phe	Leu	Gly	Gly	Arg	Ala	Arg	Ala	Arg	His	Lys	Asn
		35					40					45			
Thr	Pro	Phe	Glu	Ser	Gly	Ile	Asp	Ser	Val	Gly	Thr	Ala	Arg	Leu	Arg
	50					55					60				
Leu	Ser	Ala	Lys	Phe	Tyr	Leu	Val	Ala	Met	Phe	Phe	Val	Ile	Phe	Asp
65					70				75					80	
Val	Glu	Ala	Leu	Tyr	Leu	Phe	Ala	Trp	Ser	Thr	Ser	Ile	Arg	Glu	Ser
			85					90						95	
Gly	Trp	Val	Gly	Phe	Val	Glu	Ala	Ala	Ile	Phe	Ile	Leu	Val	Leu	Leu
		100						105					110		
Ala	Gly	Leu	Val	Tyr	Leu	Val	Arg	Ile	Gly	Ala	Leu	Asp	Trp	Thr	Pro
	115						120					125			
Val	Arg	Ser	Arg	Arg	Glu	His	Ile	Asn	Pro	Glu	Asn	Ser	Ile	Ser	Asn
	130					135					140				
Arg	Gln	Gln													
145															

<210> 9768

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9768

Gln	Arg	Gly	Asn	Lys	Met	Asp	Tyr	Thr	Leu	Thr	Arg	Ile	Asp	Pro	Asn
1			5						10					15	
Gly	Glu	Asn	Asp	Arg	Tyr	Pro	Leu	Gln	Lys	Gln	Glu	Ile	Val	Thr	Asp
		20						25					30		
Pro	Leu	Glu	Gln	Glu	Val	Asn	Lys	Ser	Val	Tyr	Met	Gly	Lys	Leu	Glu
		35					40					45			
His	Ala	Met	His	Asp	Met	Val	Asn	Trp	Gly	Arg	Lys	Asn	Ser	Ile	Trp
	50					55				60					
Pro	Tyr	Asn	Phe	Gly	Leu	Ser	Cys	Cys	Tyr	Val	Glu	Met	Val	Thr	Ser
65					70				75					80	
Phe	Thr	Ala	Val	His	Asp	Val	Ala	Arg	Phe	Gly	Ala	Glu	Val	Leu	Arg
			85					90						95	
Ala	Ser	Pro	Arg	Gln	Ala	Asp	Leu	Met	Val	Val	Ala	Gly	Thr	Cys	Phe
		100						105					110		
Thr	Lys	Met	Ala	Pro	Val	Ile	Gln	Arg	Leu	Tyr	Asp	Gln	Met	Leu	Glu
	115						120					125			
Pro	Lys	Trp	Val	Ile	Ser	Met	Gly	Ala	Cys	Ala	Asn	Ser	Gly	Gly	Met
	130					135					140				
Tyr	Asp	Ile	Tyr	Ser	Val	Val	Gln	Gly	Val	Asp	Lys	Phe	Ile	Pro	Val
145					150					155					160
Asp	Val	Tyr	Ile	Pro	Gly	Cys	Pro	Pro	Arg	Pro	Glu	Ala	Tyr	Met	Gln
			165						170					175	
Ala	Leu	Met	Leu	Leu	Gln	Glu	Ser	Ile	Gly	Lys	Glu	Arg	Arg	Pro	Leu
		180						185					190		
Ser	Trp	Val	Val	Gly	Asp	Gln	Gly	Val	Tyr	Arg	Ala	Asn	Met	Gln	Ser
	195						200					205			
Glu	Arg	Glu	Arg	Lys	Arg	Gly	Glu	Arg	Ile	Ala	Val	Thr	Asn	Leu	Arg
	210					215						220			
Thr	Pro	Asp	Glu	Ile											
225															230

<210> 9769

<211> 452

<213> Enterobacter cloacae

[illegible]

450

<210> 9770

<211> 920

<212> PRT

<213> Enterobacter cloacae

<400> 9770

Arg	Ser	Val	Ser	Ala	Glu	Pro	Thr	Gly	Ser	Met	Leu	Met	Ala	Thr	Ile
1				5					10					15	
His	Val	Asp	Gly	Lys	Glu	Tyr	Glu	Val	Asn	Gly	Ala	Asp	Asn	Leu	Leu
			20					25					30		
Glu	Ala	Cys	Leu	Ser	Leu	Gly	Leu	Asp	Ile	Pro	Tyr	Phe	Cys	Trp	His
		35					40					45			
Pro	Ala	Leu	Gly	Ser	Val	Gly	Ala	Cys	Arg	Gln	Cys	Ala	Val	Lys	Gln
	50					55					60				
Tyr	Gln	Asn	Ala	Glu	Asp	Thr	Arg	Gly	Arg	Leu	Val	Met	Ser	Cys	Met
65					70					75					80
Thr	Pro	Ala	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Ile	Asp	Asp	Glu	Glu	Ala
				85					90					95	
Lys	Gln	Phe	Arg	Glu	Ser	Val	Val	Glu	Trp	Leu	Met	Thr	Asn	His	Pro
			100					105					110		
His	Asp	Cys	Pro	Val	Cys	Glu	Glu	Gly	Asn	Cys	His	Leu	Gln	Asp	
		115					120				125				
Met	Thr	Val	Met	Thr	Gly	His	Ser	Phe	Arg	Arg	Tyr	Arg	Phe	Thr	Lys
	130					135					140				
Arg	Thr	His	Arg	Asn	Gln	Asp	Leu	Gly	Pro	Phe	Ile	Ser	His	Glu	Met
145					150					155					160
Asn	Arg	Cys	Ile	Ala	Cys	Tyr	Arg	Cys	Val	Arg	Tyr	Tyr	Lys	Asp	Tyr
				165					170					175	
Ala	Asp	Gly	Gln	Asp	Leu	Gly	Val	Tyr	Gly	Ala	His	Asp	Asn	Val	Tyr
			180					185					190		
Phe	Gly	Arg	Pro	Glu	Asp	Gly	Thr	Leu	Glu	Ser	Glu	Phe	Ser	Gly	Asn
	195						200					205			
Leu	Val	Glu	Ile	Cys	Pro	Thr	Gly	Val	Phe	Thr	Asp	Lys	Thr	His	Ser
	210					215					220				
Glu	Arg	Tyr	Asn	Arg	Lys	Trp	Asp	Met	Gln	Phe	Ala	Pro	Ser	Ile	Cys
225					230					235					240
Gln	Gln	Cys	Ser	Leu	Gly	Cys	Asn	Thr	Ser	Pro	Gly	Glu	Arg	Tyr	Gly
				245					250					255	
Glu	Leu	Arg	Arg	Ile	Glu	Asn	Arg	Tyr	Asn	Gly	Thr	Val	Asn	His	Tyr
			260					265					270		
Phe	Leu	Cys	Asp	Arg	Gly	Arg	Phe	Gly	Tyr	Gly	Tyr	Val	Asn	Leu	Lys
		275					280					285			
Asp	Arg	Pro	Arg	Gln	Pro	Val	Gln	Arg	Arg	Gly	Asp	Asp	Val	Ile	Thr
	290					295					300				
Leu	Asn	Ala	Glu	Gln	Ala	Met	Gln	Gly	Ala	Ala	Asp	Ile	Leu	Arg	Gln
305					310					315					320
Ser	Lys	Lys	Val	Ile	Gly	Ile	Gly	Ser	Pro	Arg	Ala	Ser	Ile	Glu	Ser
				325					330					335	
Asn	Phe	Ala	Leu	Arg	Glu	Leu	Val	Gly	Ala	Glu	Asn	Phe	Tyr	Thr	Gly
			340					345					350		
Ile	Ala	Gln	Gly	Glu	Gln	Glu	Arg	Leu	Gln	Leu	Val	Leu	Lys	Val	Leu
		355					360					365			
Arg	Glu	Gly	Gly	Val	His	Thr	Pro	Ala	Leu	Arg	Glu	Ile	Glu	Ser	Tyr
	370					375					380				
Asp	Ala	Val	Leu	Val	Leu	Gly	Glu	Asp	Leu	Thr	Gln	Thr	Gly	Ala	Arg
385					390					395					400
Ala	Ala	Leu	Ala	Val	Arg	Gln	Ala	Val	Lys	Gly	Lys	Ala	Arg	Glu	Met
				405					410					415	
Ala	Ala	Ala	Gln	Lys	Val	Ala	Asp	Trp	Gln	Ile	Ala	Ala	Ile	Leu	Asn

				420									430		
Ile	Gly	Gln	Arg	Ala	Lys	His	Pro	Leu	Phe	Val	Thr	Asn	Val	Asp	Asn
		435					440					445			
Thr	Arg	Leu	Asp	Asp	Ile	Ala	Ala	Trp	Thr	Tyr	Cys	Ala	Pro	Val	Glu
		450				455					460				
Asp	Gln	Ala	Arg	Leu	Gly	Phe	Ala	Ile	Ala	His	Ala	Leu	Asp	Asn	Asn
465					470					475					480
Ser	Pro	Ala	Val	Glu	Leu	Asp	Arg	Asp	Leu	Gln	Asn	Lys	Val	Asp	Val
				485					490					495	
Ile	Val	Gln	Ala	Leu	Ala	Gly	Ala	Lys	Lys	Pro	Leu	Ile	Ile	Ser	Gly
			500					505					510		
Thr	Asn	Ala	Gly	Ser	Ala	Glu	Ile	Ile	Gln	Ala	Ala	Ala	Asn	Val	Ala
		515					520					525			
Lys	Ala	Leu	Lys	Gly	Arg	Gly	Ala	Asp	Val	Gly	Val	Thr	Met	Ile	Ala
		530				535					540				
Arg	Ala	Val	Asn	Ser	Ile	Gly	Leu	Gly	Met	Ile	Gly	Gly	Gly	Ser	Leu
545					550					555					560
Glu	Asp	Ala	Leu	Ser	Glu	Leu	Glu	Ser	Gly	Ala	Ala	Asp	Ala	Val	Val
				565					570					575	
Val	Leu	Glu	Asn	Asp	Leu	His	Arg	His	Ala	Ser	Ala	Ala	Arg	Val	Asp
			580					585					590		
Ala	Ala	Leu	Ser	Arg	Ala	Pro	Leu	Val	Met	Val	Ile	Asp	His	Gln	Arg
		595					600					605			
Thr	Ala	Ile	Met	Asp	Lys	Ala	His	Leu	Val	Leu	Ser	Ala	Ala	Ser	Phe
		610				615					620				
Ala	Glu	Ser	Asp	Gly	Thr	Val	Ile	Asn	Asn	Glu	Gly	Arg	Ala	Gln	Arg
625					630					635					640
Phe	Phe	Gln	Val	Tyr	Asp	Pro	Ala	Tyr	Tyr	Asp	Ser	Asn	Thr	Val	Met
				645					650					655	
Leu	Glu	Ser	Trp	Arg	Trp	Leu	His	Ser	Leu	His	Ser	Thr	Val	Gln	Ser
			660					665					670		
Arg	Glu	Val	Asp	Trp	Thr	Gln	Leu	Asp	His	Val	Ile	Asp	Ala	Val	Val
		675					680					685			
Glu	Lys	Leu	Pro	Gln	Leu	Ala	Gly	Ile	Lys	Asp	Ala	Ala	Pro	Asp	Ala
		690				695					700				
Ser	Phe	Arg	Ile	Arg	Gly	Gln	Lys	Leu	Ala	Arg	Glu	Pro	His	Arg	Tyr
705					710					715					720
Ser	Gly	Arg	Thr	Ala	Met	Arg	Ala	Asn	Ile	Ser	Val	His	Glu	Pro	Arg
				725					730					735	
Gln	Pro	Gln	Asp	Lys	Asp	Thr	Met	Phe	Ala	Phe	Ser	Met	Glu	Gly	Asn
			740					745					750		
Asn	Gln	Pro	Ser	Ala	Pro	Arg	Ser	Gln	Ile	Pro	Phe	Ala	Trp	Ala	Pro
		755					760					765			
Gly	Trp	Asn	Ser	Pro	Gln	Ala	Trp	Asn	Lys	Phe	Gln	Ala	Glu	Val	Gly
		770				775					780				
Gly	His	Leu	Arg	His	Gly	Asp	Pro	Gly	Val	Arg	Leu	Ile	Glu	Ala	Ser
785					790					795					800
Glu	Thr	Gly	Leu	Asp	Phe	Phe	Thr	Thr	Val	Pro	Ala	Ser	Phe	Gln	Ala</

Asn Leu Gln Glu Ala Lys Ala
915 920

<210> 9771

<211> 617

<212> PRT

<213> Enterobacter cloacae

<400> 9771

Val	Ala	Trp	Met	Asn	Met	Leu	Ala	Leu	Thr	Ile	Ile	Phe	Pro	Leu	Ile
1				5					10					15	
Gly	Phe	Val	Leu	Ala	Phe	Ser	Arg	Gly	Arg	Trp	Ser	Glu	Asn	Leu	
		20					25					30			
Ser	Ala	Thr	Val	Gly	Ile	Gly	Ser	Ile	Gly	Leu	Ala	Ala	Leu	Val	Thr
		35					40					45			
Ala	Tyr	Ala	Gly	Ile	Asp	Phe	Phe	Asn	Asn	Gly	Arg	Gln	Ala	Tyr	Ser
	50					55					60				
Val	Pro	Leu	Trp	Asn	Trp	Met	Ser	Val	Gly	Asn	Phe	Asn	Ile	Gly	Phe
65				70					75					80	
Asn	Leu	Val	Leu	Asp	Gly	Leu	Ser	Leu	Thr	Met	Leu	Ser	Val	Val	Thr
			85						90					95	
Gly	Val	Gly	Phe	Leu	Ile	His	Met	Phe	Ala	Ser	Trp	Tyr	Met	Arg	Gly
			100					105					110		
Glu	Glu	Gly	Tyr	Ser	Arg	Phe	Phe	Ala	Tyr	Thr	Asn	Leu	Phe	Ile	Ala
		115					120					125			
Ser	Met	Val	Val	Leu	Val	Leu	Ala	Asp	Asn	Leu	Leu	Leu	Met	Tyr	Leu
		130				135					140				
Gly	Trp	Glu	Gly	Val	Gly	Leu	Cys	Ser	Tyr	Leu	Leu	Ile	Gly	Phe	Tyr
145				150					155					160	
Tyr	Thr	Asp	Pro	Lys	Asn	Gly	Ala	Ala	Ala	Met	Lys	Ala	Phe	Val	Val
			165					170						175	
Thr	Arg	Val	Gly	Asp	Val	Phe	Leu	Ala	Phe	Ala	Leu	Phe	Ile	Leu	Tyr
		180					185						190		
Asn	Glu	Leu	Gly	Thr	Leu	Asn	Phe	Arg	Glu	Met	Val	Glu	Leu	Ala	Pro
		195					200					205			
Ala	His	Phe	Glu	Ala	Gly	Asn	Asn	Met	Leu	Trp	Trp	Ala	Thr	Leu	Met
	210				215						220				
Leu	Leu	Gly	Gly	Ala	Val	Gly	Lys	Ser	Ala	Gln	Leu	Pro	Leu	Gln	Thr
225				230						235				240	
Trp	Leu	Ala	Asp	Ala	Met	Ala	Gly	Pro	Thr	Pro	Val	Ser	Ala	Leu	Ile
			245						250					255	
His	Ala	Ala	Thr	Met	Val	Thr	Ala	Gly	Val	Tyr	Leu	Ile	Ala	Arg	Thr
		260					265						270		
His	Gly	Leu	Phe	Leu	Met	Thr	Pro	Glu	Ile	Leu	His	Leu	Val	Gly	Ile
		275					280					285			
Val	Gly	Ala	Val	Thr	Leu	Val	Leu	Ala	Gly	Phe	Ala	Ala	Leu	Val	Gln
	290				295					300					
Thr	Asp	Ile	Lys	Arg	Val	Leu	Ala	Tyr	Ser	Thr	Met	Ser	Gln	Ile	Gly
305				310						315				320	
Tyr	Met	Phe	Leu	Ala	Leu	Gly	Val	Gln	Ala	Trp	Asp	Ala	Ala	Ile	Phe
			325					330						335	
His	Leu	Met	Thr	His	Ala	Phe	Phe	Lys	Ala	Leu	Leu	Phe	Leu	Ser	Ser
		340					345						350		
Gly	Ser	Val	Ile	Leu	Ala	Cys	His	His	Glu	Gln	Asn	Ile	Phe	Lys	Met
		355					360					365			
Gly	Gly	Leu	Arg	Lys	Ser	Ile	Pro	Leu	Val	Tyr	Val	Cys	Phe	Leu	Val
	370				375						380				
Gly	Gly	Ala	Ala	Leu	Ala	Ala	Leu	Pro	Leu	Ile	Thr	Ala	Gly	Phe	Phe
385				390						395				400	
Ser	Lys	Asp	Glu	Ile	Leu	Ala	Gly	Ala	Met	Ala	Asn	Gly	His	Ile	Asn
			405						410					415	

Leu Met Val Ala Gly Leu Val Gly Ala Phe Met Thr Ser Leu Tyr Thr
 420 425 430
 Phe Arg Met Ile Phe Ile Val Phe His Gly Lys Glu Gln Ile His Ala
 435 440 445
 His Ala Gly Lys Gly Ile Thr His His Leu Pro Leu Ile Val Leu Leu
 450 455 460
 Val Leu Ser Thr Phe Val Gly Ala Met Ile Val Pro Pro Leu Gln Gly
 465 470 475 480
 Val Leu Pro Ala Thr Thr Glu Leu Glu His Gly Arg Val Leu Thr Leu
 485 490 495
 Glu Ile Thr Ser Gly Val Val Ala Ile Ala Gly Ile Leu Ile Ala Ala
 500 505 510
 Trp Leu Trp Leu Gly Lys Arg Thr Leu Val Thr Ala Val Ala Asn Ser
 515 520 525
 Ala Pro Gly Arg Leu Leu Gly Thr Trp Trp Tyr Asn Ala Trp Gly Phe
 530 535 540
 Asp Trp Leu Tyr Asp Met Ile Phe Val Lys Pro Phe Leu Gly Ile Ala
 545 550 555 560
 Trp Leu Leu Lys Arg Asp Pro Leu Asn Ser Leu Met Asn Ile Pro Ala
 565 570 575
 Ile Leu Ser Arg Phe Ala Gly Lys Gly Leu Leu Phe Ser Glu Asn Gly
 580 585 590
 Tyr Leu Arg Trp Tyr Val Ala Ser Met Ser Ile Gly Ala Val Val Val
 595 600 605
 Leu Ala Leu Leu Met Val Leu Arg
 610 615

<210> 9772

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 9772

Ile Ala Met Leu Leu Pro Trp Leu Ile Leu Ile Pro Phe Ile Gly Gly
 1 5 10 15
 Phe Leu Cys Trp Gln Thr Glu Arg Phe Gly Val Lys Met Pro Arg Trp
 20 25 30
 Ile Ala Leu Ile Thr Met Gly Leu Thr Leu Ala Leu Gly Leu Gln Leu
 35 40 45
 Trp Leu Gln Gly Gly Tyr Ser Leu Thr Gln Ser Ala Gly Leu Pro Gln
 50 55 60
 Trp Gln Ser Glu Phe Ile Leu Pro Trp Ile Pro Arg Phe Gly Ile Thr
 65 70 75 80
 Ile His Leu Ala Ile Asp Gly Leu Ser Leu Leu Met Val Val Leu Thr
 85 90 95
 Gly Leu Leu Gly Val Leu Ala Val Leu Cys Ser Trp Arg Glu Ile Glu
 100 105 110
 Lys Tyr Gln Gly Phe Phe His Leu Asn Leu Met Trp Ile Leu Gly Gly
 115 120 125
 Val Ile Gly Val Phe Leu Ala Ile Asp Met Phe Leu Phe Phe Phe
 130 135 140
 Trp Glu Met Met Leu Val Pro Met Tyr Phe Leu Ile Ala Leu Trp Gly
 145 150 155 160
 His Lys Ala Ser Asp Gly Lys Thr Arg Ile Thr Ala Ala Thr Lys Phe
 165 170 175
 Phe Ile Tyr Thr Gln Ala Ser Gly Leu Val Met Leu Ile Ala Ile Leu
 180 185 190
 Ala Leu Val Phe Val His Tyr Asn Ala Thr Gly Val Trp Thr Phe Asn
 195 200 205
 Tyr Glu Asp Leu Leu Lys Thr Pro Met Ser His Gly Val Glu Tyr Leu
 210 215 220

Leu Met Leu Gly Phe Phe Ile Ala Phe Ala Val Lys Met Pro Val Val
 225 230 235 240
 Pro Leu His Gly Trp Leu Pro Asp Ala His Ser Gln Ala Pro Thr Ala
 245 250 255
 Gly Ser Val Asp Leu Ala Gly Ile Leu Lys Thr Ala Ala Tyr Gly
 260 265 270
 Leu Leu Arg Phe Ser Leu Pro Leu Phe Pro Asn Ala Ser Ala Glu Phe
 275 280 285
 Ala Pro Ile Ala Met Trp Leu Gly Val Ile Gly Ile Phe Tyr Gly Ala
 290 295 300
 Trp Met Ala Phe Thr Gln Tyr Asp Ile Lys Arg Leu Ile Ala Tyr Thr
 305 310 315 320
 Ser Val Ser His Met Gly Phe Val Leu Ile Ala Ile Tyr Thr Gly Ser
 325 330 335
 Gln Leu Ala Tyr Gln Gly Ala Val Ile Gln Met Ile Ala His Gly Leu
 340 345 350
 Ser Ala Ala Gly Leu Phe Ile Leu Cys Gly Gln Leu Tyr Glu Arg Leu
 355 360 365
 His Thr Arg Asp Met Arg Met Met Gly Gly Leu Trp Gly Lys Met Lys
 370 375 380
 Trp Leu Pro Ala Leu Ser Met Phe Phe Ala Val Ala Thr Leu Gly Met
 385 390 395 400
 Pro Gly Thr Gly Asn Phe Val Gly Glu Phe Met Ile Leu Phe Gly Ser
 405 410 415
 Phe Asn Val Val Pro Thr Ile Thr Val Ile Ser Thr Phe Gly Leu Val
 420 425 430
 Phe Ala Ser Val Tyr Ser Leu Ala Met Leu His Arg Ala Tyr Phe Gly
 435 440 445
 Lys Ala Lys Ser Glu Ile Ala Ala Gln Glu Leu Pro Gly Met Ser Leu
 450 455 460
 Arg Glu Leu Phe Ile Ile Leu Leu Val Val Leu Leu Val Leu Leu
 465 470 475 480
 Gly Phe Tyr Pro Gln Pro Ile Leu Asp Thr Ser His Ser Ala Met Gly
 485 490 495
 Asn Ile Gln Gln Trp Phe Val Asn Ser Ala Ser Thr Thr Arg Pro
 500 505 510

<210> 9773

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 9773

Phe Ala Met Thr Ile Thr Pro Gln Gln Leu Ile Ala Leu Leu Pro Leu
 1 5 10 15
 Leu Ile Val Gly Leu Thr Val Val Val Met Leu Ser Ile Ala Trp
 20 25 30
 Arg Arg Asn His Phe Leu Asn Ala Thr Leu Ser Val Leu Gly Leu Asn
 35 40 45
 Ala Ala Leu Val Ser Leu Trp Phe Val Gly Gln Ala Gly Ala Met Asp
 50 55 60
 Val Thr Pro Leu Met Arg Val Asp Gly Tyr Ala Met Leu Tyr Thr Gly
 65 70 75 80
 Leu Val Leu Leu Ala Ser Leu Ala Thr Cys Thr Phe Ala Tyr Pro Trp
 85 90 95
 Leu Glu Gly Tyr Asn Asp Asn Lys Glu Glu Phe Tyr Leu Leu Val Leu
 100 105 110
 Ile Ala Ala Leu Gly Gly Ile Leu Leu Ala Asn Ala Asn His Met Ala
 115 120 125
 Ala Leu Phe Leu Gly Ile Glu Leu Ile Ser Leu Pro Leu Phe Gly Leu
 130 135 140


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Ile Gly Tyr Ala Phe Arg Gln Lys Arg Ser Leu Glu Ala Ala Ile Lys
145          150          155          160
Tyr Thr Ile Leu Ser Ala Ala Ala Ser Ser Phe Leu Leu Phe Gly Ile
          165          170          175
Ala Leu Leu Tyr Ala Gln Thr Gly Asn Leu Ser Phe Leu Ala Ile Gly
          180          185          190
Lys Ser Leu Gly Asp Gly Met Met His Glu Pro Leu Leu Leu Ala Gly
          195          200          205
Leu Gly Met Met Ile Val Gly Leu Gly Phe Lys Leu Ser Leu Val Pro
          210          215          220
Phe His Leu Trp Thr Pro Asp Val Tyr Gln Gly Ala Pro Ala Pro Val
225          230          235          240
Ser Thr Phe Leu Ala Thr Ala Ser Lys Ile Ala Ile Phe Gly Val Val
          245          250          255
Met Arg Leu Phe Leu Tyr Ala Pro Val Gly Asp Ser Glu Ala Val Arg
          260          265          270
Val Val Leu Gly Ile Ile Ala Phe Val Ser Ile Ile Phe Gly Asn Leu
          275          280          285
Met Ala Leu Ser Gln Thr Asn Ile Lys Arg Leu Leu Gly Tyr Ser Ser
          290          295          300
Ile Ser His Leu Gly Tyr Leu Leu Val Ala Leu Ile Ala Leu Gln Ser
305          310          315          320
Gly Glu Met Ser Met Glu Thr Val Gly Val Tyr Leu Ala Gly Tyr Leu
          325          330          335
Phe Ser Ser Leu Gly Ala Phe Gly Val Val Ser Leu Met Ser Ser Pro
          340          345          350
Tyr Arg Gly Pro Asp Ala Asp Ser Leu Phe Ser Tyr Arg Gly Leu Phe
          355          360          365
Trp His Arg Pro Ile Leu Ser Ala Val Met Thr Val Met Met Leu Ser
          370          375          380
Leu Ala Gly Ile Pro Met Thr Leu Gly Phe Ile Gly Lys Phe Tyr Val
          385          390          395          400
Leu Ala Val Gly Val Gln Ala Gly Leu Trp Trp Leu Thr Ala Gly Val
          405          410          415
Val Ile Gly Ser Ala Ile Gly Leu Tyr Tyr Tyr Leu Arg Val Ala Val
          420          425          430
Ser Leu Tyr Leu Ser Ala Pro Gln Gln Leu Asn Arg Asp Ala Pro Ser
          435          440          445
Asn Trp Gln Tyr Ser Ala Gly Gly Ile Val Val Leu Ile Ser Ala Leu
          450          455          460
Leu Val Leu Ile Phe Gly Ile Tyr Pro Gln Pro Leu Ile Asp Ile Val
          465          470          475          480
Gln Arg Ala Met Pro Leu Met
          485

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<210> 9774

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9774

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Leu Pro Asp Trp Cys Thr Asn Met Glu Lys Asn Met Ser Phe Gln Ser
1          5          10          15
Trp Asp Thr Arg Val Asp Asp Asp Leu Thr Leu Leu Ser Glu Thr Leu
          20          25          30
Glu Glu Val Leu Arg Ser Ser Gly Asp Pro Ala Asp Gln Lys Tyr Ile
          35          40          45
Glu Leu Lys Ala Arg Ala Glu Gln Ala Leu His Asp Val Lys Asn Arg
          50          55          60
Val Ser Asn Ala Ser Asp Asn Tyr Tyr Tyr Arg Ala Lys Gln Ala Val
65          70          75          80

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Tyr Arg Ala Asp Asp Tyr Val His Glu Lys Pro Trp Gln Gly Ile Gly
 85 90 95
 Val Gly Ala Ala Val Gly Leu Val Leu Gly Leu Leu Leu Ala Arg Arg
 100 105 110

<210> 9775

<211> 589

<212> PRT

<213> Enterobacter cloacae

<400> 9775

Gly Ile Asn Thr Asp Ser Cys Asn Pro Asp Ser Tyr Gln Asn Ser Asp
 1 5 10 15
 Phe Phe Tyr Tyr Leu Tyr Cys Val Ala Phe Leu Ile Leu Asp Asn Leu
 20 25 30
 Met Ser Val Ser Ser Phe Asn Arg Arg Trp Ala Ala Val Ile Leu Glu
 35 40 45
 Ala Leu Thr Arg His Gly Val Arg His Val Cys Ile Ala Pro Gly Ser
 50 55 60
 Arg Ser Thr Pro Leu Thr Leu Ala Ala Ala Glu Asn Arg Ala Phe Ile
 65 70 75 80
 His His Thr His Phe Asp Glu Arg Gly Leu Gly His Leu Ala Leu Gly
 85 90 95
 Leu Ala Lys Val Ser Lys Ala Pro Val Ala Val Ile Val Thr Ser Gly
 100 105 110
 Thr Ala Val Ala Asn Leu Tyr Pro Ala Leu Ile Glu Ala Gly Leu Thr
 115 120 125
 Gly Glu Lys Leu Ile Leu Leu Thr Ala Asp Arg Pro Pro Glu Leu Ile
 130 135 140
 Asp Cys Gly Ala Asn Gln Ala Ile Arg Gln Pro Gly Ile Phe Ala Ser
 145 150 155 160
 His Pro Ser Gln Thr Val Ser Leu Pro Arg Pro Thr Gln Asp Ile Pro
 165 170 175
 Ala Ser Trp Leu Val Ser Thr Leu Asp His Ala Met Asn Ala Leu Arg
 180 185 190
 Ser Gly Gly Leu His Ile Asn Cys Pro Phe Ala Glu Pro Leu Tyr Gly
 195 200 205
 Glu Met Asn Asp Thr Gly Leu Val Trp Gln Gln Gln Leu Gly Asp Trp
 210 215 220
 Trp Glu Ser Glu Lys Pro Trp Leu Arg Glu Gln Thr His Leu Glu Ser
 225 230 235 240
 Ala Lys Gln Arg Asp Trp Phe Phe Trp Arg Gln Lys Arg Gly Val Val
 245 250 255
 Ile Ala Gly Arg Met Ser Ala Ala Glu Gly Lys Leu Ala Ala Glu Trp
 260 265 270
 Ala Gln Thr Leu Gly Trp Pro Leu Ile Gly Asp Val Leu Ser Gln Thr
 275 280 285
 Gly Gln Pro Leu Pro Cys Ala Asp Leu Trp Leu Gly Asn Ala Lys Ala
 290 295 300
 Val Thr Glu Leu Ala Gln Ala Gln Ile Val Val Gln Leu Gly Ser Ser
 305 310 315 320
 Leu Thr Gly Lys Arg Leu Leu Gln Trp Gln Ala Thr Cys Thr Pro Glu
 325 330 335
 Glu Tyr Trp Leu Val Asp Pro Leu Glu Gly Arg Leu Asp Pro Ala His
 340 345 350
 His Arg Gly Arg Arg Leu Val Ser Asp Ile Asn Ser Trp Leu Glu Leu
 355 360 365
 His Pro Ala Glu Lys Arg Lys Pro Trp Ala Val Glu Ile Pro Ala Leu
 370 375 380

Ser Arg Gln Ala Trp Glu Leu Thr Lys Ala Gln Cys Glu Ala Phe Ser
 385 390 395 400
 Glu Ala Gly Leu Ala His Arg Ile Arg Lys Tyr Leu Pro Glu Gln Gly
 405 410 415
 Gln Leu Phe Val Gly Asn Ser Leu Val Arg Leu Ile Asp Ala Phe
 420 425 430
 Ser Gln Leu Pro Ala Gly Tyr Pro Val Tyr Ser Asn Arg Gly Ala Ser
 435 440 445
 Gly Ile Asp Gly Leu Ile Ser Thr Ala Ala Gly Val Gln Arg Ala Ser
 450 455 460
 Ala Lys Ser Thr Leu Ala Ile Val Gly Asp Leu Ser Ala Leu Tyr Asp
 465 470 475 480
 Leu Asn Ala Leu Ala Leu Arg Gln Ala Ser Ala Pro Phe Val Leu
 485 490 495
 Ile Ile Val Asn Asn Asn Gly Gly Gln Ile Phe Ser Leu Leu Pro Thr
 500 505 510
 Pro Gln Ser Glu Arg Glu Arg Phe Tyr Leu Met Pro Gln Asn Val Gln
 515 520 525
 Phe Glu His Ala Ala Ala Met Phe Ser Leu Lys Tyr His Arg Pro Glu
 530 535 540
 Asn Trp Asp Ala Leu Glu Thr Ala Leu Asn Thr Ala Trp Arg Gln Pro
 545 550 555 560
 Gly Ala Thr Leu Ile Glu Leu Val Val Asn Asp Ala Asp Gly Ala Gln
 565 570 575
 Lys Leu Gln His Leu Leu Ala Gln Val Ser His Leu
 580 585

<210> 9776

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 9776

Arg His His Ala Val Leu Tyr Asp Arg Arg Gly Ser Gly Arg Ala Gln
 1 5 10 15
 Arg Val Gln Arg Lys Thr Pro Ala Arg Leu Gln Gln Ile Gln Thr Glu
 20 25 30
 Pro Val Met Arg Arg Val Gln Val Tyr Arg Trp Gln Ile Pro Met Asp
 35 40 45
 Ala Gly Val Val Leu Arg Glu Arg Arg Leu Lys Thr Arg Asp Gly Phe
 50 55 60
 Phe Val His Leu Arg Glu Gly Glu Arg Glu Gly Trp Gly Glu Ile Ala
 65 70 75 80
 Pro Leu Pro Gly Phe Ser Leu Glu Thr Leu Asp Glu Ala Gln Ala Ala
 85 90 95
 Leu Met Ala Trp Thr His Ala Trp Arg Glu Gly Glu Asp Pro Ala Leu
 100 105 110
 Pro Asp Val Pro Ser Val Ala Phe Gly Ile Ser Cys Ala Leu Ala Glu
 115 120 125
 Leu Asp Gly Ser Leu Pro Glu Ala Ala Asn Tyr Arg Ala Ala Pro Leu
 130 135 140
 Cys Thr Gly Asp Pro Asp Glu Leu Phe Ala Leu Leu Ser Ala Met Pro
 145 150 155 160
 Gly Glu Lys Val Ala Lys Ile Lys Val Gly Leu Tyr Glu Ala Val Arg
 165 170 175
 Asp Gly Met Val Val Asn Leu Leu Leu Glu Ala Ile Pro Asp Leu His
 180 185 190
 Leu Arg Leu Asp Ala Asn Arg Ala Trp Thr Pro Leu Arg Ala Gln Gln
 195 200 205
 Phe Ala Lys Tyr Val Asn Pro Ala Tyr Arg Ser Arg Ile Ala Phe Leu
 210 215 220

Glu Glu Pro Cys Lys Thr Arg Asp Asp Ser Arg Ala Phe Ala Arg Glu
 225 230 235 240
 Thr Gly Ile Ala Ile Ala Trp Asp Glu Ser Leu Arg Glu Ala Asp Phe
 245 250 255
 Ala Phe Ala Ala Glu Pro Gly Val Arg Ala Val Val Ile Lys Pro Thr
 260 265 270
 Leu Thr Gly Ser Leu Asp Lys Val Arg Glu Gln Val Ala Ala Ala His
 275 280 285
 Ala Ala Gly Leu Thr Ala Val Ile Ser Ser Ser Ile Glu Ser Ser Leu
 290 295 300
 Gly Leu Thr Gln Leu Ala Arg Ile Ala Ala Trp Leu Thr Pro Asp Thr
 305 310 315 320
 Val Pro Gly Leu Asp Thr Leu Asn Leu Met Gln Ala Gln Leu Ile Arg
 325 330 335
 Gln Trp Pro Gly Ser Thr Leu Pro Cys Leu Asp Val Gly Ala Leu Glu
 340 345 350
 Pro Leu Arg
 355

<210> 9777

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9777

Pro Ala Ala Ala Cys Gly Ser Pro Pro Ser Gly Gly Trp Ala Thr Cys
 1 5 10 15
 Trp Ser Ala Ala Met Lys Trp Val Lys Pro Gln Ser Leu Tyr Leu Gln
 20 25 30
 Leu Leu Leu Phe Leu Gly Leu Pro Leu Leu Leu Trp Gly Leu Ser
 35 40 45
 Ala Phe Asn Ser Tyr Val Ser Ala Leu Gln Ala Ala Thr Gln Ala Tyr
 50 55 60
 Asp Arg Thr Leu Leu Ser Ser Ala Arg Thr Val Ser Glu Arg Leu Val
 65 70 75 80
 Val His Asn Gly Lys Leu Gln Val Asn Val Pro Trp Val Val Leu Asp
 85 90 95
 Ser Phe Glu Leu Asn Met Asn Asp Arg Leu Tyr Tyr Lys Val Val Asp
 100 105 110
 Pro Asp Gly Arg Thr Ile Ser Gly Tyr Asp Asp Leu Pro Asn Met Pro
 115 120 125
 Pro Ser Thr Ser Arg Thr Ser His Tyr Pro Ala Leu Ala Trp Phe Tyr
 130 135 140
 His Thr Glu Tyr Arg Gly Gln Ala Ile Arg Val Ala Lys Leu Leu Gln
 145 150 155 160
 Pro Val Asn Glu Asp Ser Val Phe Gly Met Ala Glu Ile Tyr Val Ala
 165 170 175
 Glu Thr Leu Gln Ser Arg Arg Tyr Leu Ala Thr Gln Leu Leu Phe Ser
 180 185 190
 Ser Leu Val Ser Gln Gly Leu Leu Val Leu Leu Thr Leu Val Leu Thr
 195 200 205
 Ala Trp Leu Leu Arg Arg Val Leu Arg Pro Met Arg Gln Leu Ser Ser
 210 215 220
 Leu Met Val Arg Arg Glu Pro Gly Leu Leu Ala Pro Leu Pro Glu Leu
 225 230 235 240
 Leu Pro Trp Ser Glu Thr Arg Leu Leu Ile Val Ala Phe Asn Arg Tyr
 245 250 255
 Ile Asp Arg Leu Arg Gly Val Leu Ser Arg Gln Ala Arg Phe Asn Ala
 260 265 270
 Asp Ala Ser His Gln Leu Lys Thr Pro Leu Ala Val Leu Lys Thr Gln
 275 280 285

Val Ser Val Ala Leu Thr Arg Asn Asp Pro Ala Leu Trp Gln Glu Ser
 290 295 300
 Leu Arg Ala Met Asn Val Thr Leu Asp Asn Thr Ile Val Leu Thr Glu
 305 310 315 320
 Arg Leu Leu Gln Leu Ser Ala Val Lys Arg Lys Glu Gln Gly Glu Arg
 325 330 335
 Gln Phe Ala Pro Val Asp Leu Val Gln Val Val Gln Asn Cys Cys Phe
 340 345 350
 Ser Arg Leu Ala Gln Ala Arg Ser Lys Gly Ile Asp Leu Gly Tyr Asp
 355 360 365
 Gly Val Ser Ser Arg
 370

<210> 9778

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 9778

Pro Leu Lys Trp Glu Asn Thr Met Ile Asn Val Glu Met Leu Ser Thr
 1 5 10 15
 Gly Asp Glu Val Leu His Gly Gln Ile Asp Thr Asn Ala Ala Trp
 20 25 30
 Leu Ala Asp Leu Phe Phe Glu Gln Gly Leu Pro Leu Thr Arg Arg Asn
 35 40 45
 Thr Val Gly Asp Asn Leu Glu Ser Leu Val Asn Val Leu Arg Glu Arg
 50 55 60
 Ser Glu Arg Cys Asp Val Leu Ile Val Asn Gly Gly Leu Gly Pro Thr
 65 70 75 80
 Ser Asp Asp Leu Ser Ala Leu Ala Ala Thr Ala Lys Gly Glu Gly
 85 90 95
 Leu Val Leu His Glu Ala Trp Leu Ala Gln Met Glu Arg Phe Phe Ser
 100 105 110
 Glu Arg Gly Arg Val Met Ala Pro Ser Asn Arg Lys Gln Ala Glu Ile
 115 120 125
 Pro Ala Ser Ala Glu Leu Ile Asp Asn Pro Val Gly Thr Ala Cys Gly
 130 135 140
 Phe Ala Val Gln Leu Asn Arg Cys Leu Met Phe Phe Thr Pro Gly Val
 145 150 155 160
 Pro Ser Glu Phe Lys Val Met Val Glu Gln Gln Ile Leu Pro Arg Leu
 165 170 175
 Arg Ala Arg Phe Thr Leu Pro Glu Pro Pro Leu Cys Leu Arg Leu Thr
 180 185 190
 Thr Phe Gly Arg Ser Glu Ser Asp Leu Ala Gln Ser Leu Asp His Leu
 195 200 205
 Gln Leu Pro Pro Gly Val Ser Met Gly Tyr Arg Ser Ser Met Pro Ile
 210 215 220
 Ile Glu Leu Lys Leu Thr Gly Pro Ala Ser Glu Lys Ala Ala Met Leu
 225 230 235 240
 Ala Leu Trp Pro Glu Val Arg Arg Val Ala Gly Glu Ser Leu Ile Phe
 245 250 255
 Glu Gly Thr Lys Gly Leu Pro Ala Gln Ile Ala Ala His Leu Gln Ser
 260 265 270
 Arg Gln Leu Ser Val Thr Leu Ser Glu Gln Phe Thr Gly Gly Leu Leu
 275 280 285
 Ala Leu Gln Leu Thr Arg Ala Gly Ala Pro Leu Leu Ala Ser Glu Val
 290 295 300
 Val Pro Phe Gln Gln Glu Thr Leu Ala Gln Thr Ala Arg Trp Ala Ser
 305 310 315 320
 Glu Arg Arg Val Lys His Phe Ala Gly Leu Ala Leu Phe Val Gly Gly
 325 330 335

Leu	Asp	Glu	Glu	His	Leu	Asn	Phe	Ala	Leu	Ala	Thr	Pro	Glu	Gly	Thr
			340					345					350		
His	Ala	Leu	Arg	Val	Arg	Met	Ser	Ile	Thr	Arg	His	Ser	Leu	Ala	Val
		355					360					365			
Arg	Gln	Glu	Val	Cys	Ala	Met	Met	Ala	Leu	Asn	Met	Leu	Arg	Arg	Trp
	370					375					380				
Leu	Asn	Gly	Lys	Glu	Val	Ala	Ser	Glu	His	Gly	Trp	Ile	Asn	Val	Val
385					390					395					400
Glu	Ser	Leu	Phe	Val	Glu										
				405											

<210> 9779

<211> 879

<212> PRT

<213> Enterobacter cloacae

<400> 9779

Met	Ser	Asp	Leu	Ala	Arg	Glu	Ile	Thr	Pro	Val	Asn	Ile	Glu	Glu	Glu
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Leu	Lys	Ser	Ser	Tyr	Leu	Asp	Tyr	Ala	Met	Ser	Val	Ile	Val	Gly	Arg
			20					25					30		
Ala	Leu	Pro	Asp	Val	Arg	Asp	Gly	Leu	Lys	Pro	Val	His	Arg	Arg	Val
		35					40					45			
Leu	Tyr	Ala	Met	Asn	Val	Leu	Gly	Asn	Asp	Trp	Asn	Lys	Ala	Tyr	Lys
	50					55					60				
Lys	Ser	Ala	Arg	Val	Val	Gly	Asp	Val	Ile	Gly	Lys	Tyr	His	Pro	His
65					70					75				80	
Gly	Asp	Ile	Ala	Val	Tyr	Gly	Thr	Ile	Val	Arg	Met	Ala	Gln	Pro	Phe
				85					90					95	
Ser	Leu	Arg	Tyr	Met	Leu	Val	Asp	Gly	Gln	Gly	Asn	Phe	Gly	Ser	Ile
			100					105					110		
Asp	Gly	Asp	Ser	Ala	Ala	Ala	Met	Arg	Tyr	Thr	Glu	Ile	Arg	Leu	Ala
		115					120					125			
Lys	Ile	Ala	His	Glu	Leu	Met	Ala	Asp	Leu	Glu	Lys	Glu	Thr	Val	Asp
		130				135					140				
Phe	Val	Asp	Asn	Tyr	Asp	Gly	Thr	Glu	Lys	Ile	Pro	Asp	Val	Met	Pro
145					150					155				160	
Thr	Lys	Ile	Pro	Asn	Leu	Leu	Val	Asn	Gly	Ser	Ser	Gly	Ile	Ala	Val
				165					170					175	
Gly	Met	Ala	Thr	Asn	Ile	Pro	Pro	His	Asn	Ile	Thr	Glu	Val	Ile	Asn
			180					185					190		
Gly	Cys	Leu	Ala	Tyr	Ile	Asp	Asp	Glu	Asp	Ile	Ser	Ile	Glu	Gly	Leu
		195					200					205			
Met	Glu	His	Ile	Pro	Gly	Pro	Asp	Phe	Pro	Thr	Ala	Ala	Ile	Ile	Asn
		210				215					220				
Gly	Arg	Arg	Gly	Ile	Glu	Glu	Ala	Tyr	Arg	Thr	Gly	Arg	Gly	Lys	Ile
225					230					235				240	
Tyr	Ile	Arg	Ala	Arg	Ala	Glu	Val	Glu	Ala	Asp	Ala	Lys	Thr	Gly	Arg
				245					250					255	
Glu	Thr	Ile	Ile	Val	His	Glu	Ile	Pro	Tyr	Gln	Val	Asn	Lys	Ala	Arg
			260					265					270		
Leu	Ile	Glu	Lys	Ile	Ala	Glu	Leu	Val	Lys	Glu	Lys	Arg	Val	Glu	Gly
		275					280					285			
Ile	Ser	Ala	Leu	Arg	Asp	Glu	Ser	Asp	Lys	Asp	Gly	Met	Arg	Ile	Val
	290					295					300				
Ile	Glu	Ile	Lys	Arg	Asp	Ala	Val	Gly	Glu	Val	Val	Leu	Asn	Asn	Leu
305					310					315					320
Tyr	Ser	Gln	Thr	Gln	Leu	Gln	Val	Ser	Phe	Gly	Ile	Asn	Met	Val	Ala
				325					330					335	
Leu	His	His	Gly	Gln	Pro	Lys	Ile	Met	Asn	Leu	Lys	Glu	Ile	Leu	Ser
			340					345					350		

Ala	Phe	Val	Arg	His	Arg	Arg	Glu	Val	Val	Thr	Arg	Arg	Thr	Ile	Phe
		355					360					365			
Glu	Leu	Arg	Lys	Ala	Arg	Asp	Arg	Ala	His	Ile	Leu	Glu	Ala	Leu	Ala
	370					375					380				
Val	Ala	Leu	Ala	Asn	Ile	Asp	Pro	Ile	Ile	Glu	Leu	Ile	Arg	Arg	Ala
385					390					395					400
Pro	Thr	Pro	Ala	Glu	Ala	Lys	Ala	Ser	Leu	Val	Ala	Arg	Ser	Trp	Asp
				405					410					415	
Leu	Gly	Asn	Val	Ala	Ala	Met	Leu	Glu	Arg	Ala	Gly	Asp	Asp	Ala	Ala
		420						425					430		
Arg	Pro	Glu	Trp	Leu	Glu	Pro	Glu	Phe	Gly	Val	Arg	Asp	Gly	Gln	Tyr
	435						440					445			
Tyr	Leu	Thr	Glu	Gln	Gln	Ala	Gln	Ala	Ile	Leu	Asp	Leu	Arg	Leu	Gln
	450					455					460				
Lys	Leu	Thr	Gly	Leu	Glu	His	Glu	Lys	Leu	Leu	Asp	Glu	Tyr	Lys	Glu
465					470					475					480
Leu	Leu	Glu	Gln	Ile	Ala	Glu	Leu	Leu	His	Ile	Leu	Gly	Ser	Ala	Glu
				485					490					495	
Arg	Leu	Met	Glu	Val	Ile	Arg	Glu	Glu	Leu	Glu	Leu	Val	Arg	Asp	Gln
		500						505					510		
Phe	Gly	Asp	Glu	Arg	Arg	Thr	Glu	Ile	Thr	Ala	Asn	Ser	Ser	Asp	Ile
	515						520					525			
Asn	Ile	Glu	Asp	Leu	Ile	Asn	Arg	Glu	Asp	Val	Val	Val	Thr	Leu	Ser
	530					535					540				
His	Gln	Gly	Tyr	Val	Lys	Tyr	Gln	Pro	Leu	Thr	Asp	Tyr	Glu	Ala	Gln
545					550					555					560
Arg	Arg	Gly	Gly	Lys	Gly	Lys	Ser	Ala	Ala	Arg	Ile	Lys	Glu	Glu	Asp
				565					570					575	
Phe	Ile	Asp	Arg	Leu	Leu	Val	Ala	Asn	Thr	His	Asp	Thr	Ile	Leu	Cys
		580						585					590		
Phe	Ser	Ser	Arg	Gly	Arg	Leu	Tyr	Trp	Met	Lys	Val	Tyr	Gln	Leu	Pro
	595						600					605			
Glu	Ala	Ser	Arg	Gly	Ala	Arg	Gly	Arg	Pro	Ile	Val	Asn	Leu	Leu	Pro
	610					615					620				
Leu	Glu	Ala	Asn	Glu	Arg	Ile	Thr	Ala	Ile	Leu	Pro	Val	Arg	Glu	Tyr
625					630					635					640
Glu	Glu	Gly	Val	Asn	Val	Phe	Met	Ala	Thr	Ala	Ser	Gly	Thr	Val	Lys
				645					650					655	
Lys	Thr	Ala	Leu	Thr	Glu	Phe	Ser	Arg	Pro	Arg	Ser	Ala	Gly	Ile	Ile
			660					665					670		
Ala	Val	Asn	Leu	Asn	Glu	Gly	Asp	Glu	Leu	Ile	Gly	Val	Asp	Leu	Thr
		675					680					685			
Ser	Gly	Ser	Asp	Glu	Val	Met	Leu	Phe	Ser	Ala	Ala	Gly	Lys	Val	Val
	690					695					700				
Arg	Phe	Lys	Glu	Asn	Ala	Val	Arg	Ala	Met	Gly	Arg	Thr	Ala	Thr	Gly
705					710					715					720
Val	Arg	Gly	Ile	Lys	Leu	Ala	Gly	Glu	Asp	Ser	Val	Val	Ser	Leu	Ile
				725					730					735	
Val	Pro	Arg	Gly	Glu	Gly	Ala	Ile	Leu	Thr	Val	Thr	Gln	Asn	Gly	Tyr
			740					745					750		
Gly	Lys	Arg	Thr	Ala	Glu	Ser	Glu	Tyr	Pro	Thr	Lys	Ser	Arg	Gly	Thr
	755						760					765			
Gln	Gly	Val	Ile	Ser	Ile	Lys	Val	Thr	Glu	Arg	Asn	Gly	Ser	Val	Val
	770					775					780				
Gly	Ala	Val	Gln	Val	Asp	Asp	Ala	Asp	Gln	Ile	Met	Met	Ile	Thr	Asp
785					790					795					800
Ala	Gly	Thr	Leu	Val	Arg	Thr	Arg	Val	Ser	Glu	Ile	Ser	Val	Val	Gly
				805					810					815	
Arg	Asn	Thr	Gln	Gly	Val	Ile	Leu	Ile	Arg	Thr	Ala	Glu	Asp	Glu	Asn
	820							825					830		
Val	Val	Gly	Leu	Gln	Arg	Val	Ala	Glu	Pro	Val	Asp	Asp	Glu	Glu	Leu

	835		840		845
Asp	Ser Ile Asp Gly Ser Val Ala Glu Gly Asp Asp Glu Ile Ala Pro				
850		855		860	
Glu Ala Asp Ile Asp Asp Glu Ala Ala Asp Asp Ala Asp Glu					
865		870		875	

<210> 9780

<211> 957

<212> PRT

<213> Enterobacter cloacae

<400> 9780

Pro	Arg	Arg	Arg	Ser	Leu	Ala	Pro	Leu	Lys	Tyr	Leu	Val	Ser	Phe	Arg
1				5					10					15	
Thr	Thr	Leu	Lys	Val	Ser	Arg	Tyr	Leu	Phe	Arg	Ala	Leu	Ala	Leu	Leu
		20						25				30			
Leu	Trp	Leu	Leu	Val	Ala	Leu	Leu	Ser	Val	Phe	Tyr	Ile	Val	Asn	Ala
		35					40					45			
Leu	His	Gln	Lys	Glu	Ala	Glu	Ile	Arg	Gln	Glu	Phe	Asn	Leu	Ser	Ser
	50					55					60				
Asp	Gln	Ala	Gln	Arg	Tyr	Ile	Gln	Arg	Thr	Ser	Asp	Val	Met	Lys	Glu
65				70					75						80
Leu	Lys	Tyr	Ile	Ala	Glu	Asn	Arg	Leu	Thr	Ala	Glu	Asn	Gly	Ile	Leu
			85					90						95	
Ala	Ile	Arg	Gly	Arg	Asp	Glu	Lys	Thr	Glu	Val	Pro	Asp	Phe	Glu	Pro
			100					105					110		
Leu	Phe	Pro	Asp	Ser	Asp	Cys	Ser	Ala	Met	Gly	Lys	Ala	Trp	Arg	Gly
	115					120						125			
Ser	Leu	Glu	Ser	Leu	Ser	Trp	Phe	Met	Arg	Tyr	Trp	Arg	Asp	Asn	Phe
	130					135					140				
Ser	Ala	Ala	Tyr	Asp	Leu	Asn	Arg	Val	Tyr	Leu	Ile	Ser	Asn	Glu	Asn
145				150						155					160
Leu	Cys	Met	Ala	Asp	Phe	Gly	Leu	Arg	Asp	Met	Pro	Val	Glu	Arg	Glu
			165					170						175	
Asp	Ala	Leu	Lys	Ser	Leu	His	Glu	Arg	Ile	Val	Lys	Tyr	Arg	Asn	Ala
			180				185						190		
Pro	Gln	Glu	Glu	Arg	Gly	Asn	Asn	Ile	Phe	Trp	Ile	Ser	Gln	Gly	Pro
	195					200						205			
Arg	Met	Gly	Val	Gly	Tyr	Phe	Tyr	Ala	Leu	Thr	Pro	Val	Tyr	Leu	Gly
	210				215						220				
Asn	Arg	Leu	Gln	Ala	Leu	Leu	Gly	Ile	Glu	Gln	Thr	Ile	Arg	Met	Glu
225			230						235						240
Asn	Phe	Phe	Thr	Pro	Gly	Ser	Leu	Pro	Met	Gly	Val	Thr	Ile	Leu	Asp
			245						250					255	
Glu	Asn	Gly	His	Pro	Leu	Ile	Ser	Leu	Thr	Gly	Pro	Glu	Asn	Arg	Leu
		260						265					270		
Lys	Val	Glu	Pro	Ser	Trp	Met	Gln	Glu	Arg	Ser	Trp	Phe	Gly	Tyr	Thr
	275					280						285			
Ser	Gly	Phe	Arg	Glu	Leu	Val	Leu	Lys	Lys	Ser	Leu	Pro	Pro	Ser	Ser
	290				295						300				
Leu	Ser	Ile	Val	Tyr	Ser	Leu	Pro	Val	Asp	Lys	Val	Leu	Glu	Arg	Ile
305				310					315						320
Arg	Ile	Leu	Ile	Leu	Asn	Ala	Ile	Leu	Leu	Asn	Ile	Ala	Val	Gly	Val
			325					330						335	
Ala	Leu	Phe	Met	Leu	Ala	Arg	Met	Tyr	Glu	Arg	Arg	Ile	Phe	Ile	Pro
		340					345					350			
Ala	Glu	Ala	Asp	Ala	Gln	Arg	Leu	Glu	Glu	His	Glu	Gln	Phe	Asn	Arg
	355					360						365			
Lys	Ile	Val	Ala	Ser	Ala	Pro	Val	Gly	Ile	Cys	Ile	Leu	Arg	Thr	Gln
	370				375						380				
Asp	Gly	Thr	Asn	Ile	Leu	Ser	Asn	Glu	Leu	Ala	His	Asn	Tyr	Leu	Asn

385					390					395				400
Met	Leu	Thr	His	Glu	Asp	Arg	Gln	Arg	Leu	Thr	Gln	Ile	Ile	Cys
				405					410					415
Gln	Gln	Val	Asn	Phe	Val	Asp	Val	Leu	Thr	Ser	Thr	His	Thr	Asn
			420					425					430	
Gln	Ile	Ser	Phe	Val	His	Ser	Arg	Tyr	Arg	Asn	Glu	Asn	Val	Ala
		435					440					445		
Cys	Val	Leu	Val	Asp	Val	Ser	Ala	Arg	Val	Lys	Met	Glu	Glu	Ser
	450					455					460			
Gln	Asp	Met	Ala	Gln	Ala	Ala	Glu	Gln	Ala	Ser	Gln	Ser	Lys	Ser
465					470					475				480
Phe	Leu	Ala	Thr	Val	Ser	His	Glu	Leu	Arg	Thr	Pro	Leu	Tyr	Gly
				485					490					495
Ile	Gly	Asn	Leu	Asp	Leu	Leu	Gln	Thr	Lys	Glu	Leu	Pro	Lys	Gly
		500					505						510	Val
Asp	Arg	Leu	Val	Thr	Ala	Met	Asn	Asn	Ser	Ser	Ser	Leu	Leu	Leu
		515					520					525		Lys
Ile	Ile	Ser	Asp	Ile	Leu	Asp	Phe	Ser	Lys	Ile	Glu	Ser	Glu	Gln
	530					535					540			
Lys	Ile	Glu	Pro	Arg	Glu	Phe	Ser	Pro	Arg	Glu	Val	Met	Asn	His
545					550					555				560
Cys	Ala	Asn	Tyr	Leu	Pro	Leu	Val	Val	Arg	Lys	Gln	Leu	Gly	Leu
				565					570					575
Cys	Phe	Ile	Glu	Pro	Asp	Val	Pro	Leu	Thr	Leu	His	Gly	Asp	Pro
			580					585					590	Met
Arg	Leu	Gln	Gln	Val	Ile	Ser	Asn	Leu	Leu	Ser	Asn	Ala	Ile	Lys
				595			600					605		Phe
Thr	Asp	Ile	Gly	Cys	Ile	Val	Leu	His	Val	Cys	Arg	Ala	Gly	Glu
	610					615					620			Tyr
Leu	Thr	Ile	Arg	Val	Arg	Asp	Thr	Gly	Val	Gly	Ile	Pro	Ala	Lys
625					630					635				640
Val	Val	Arg	Leu	Phe	Asp	Pro	Phe	Phe	Gln	Val	Gly	Thr	Gly	Val
				645					650					655
Arg	Asn	Phe	Gln	Gly	Thr	Gly	Leu	Gly	Leu	Ala	Ile	Cys	Glu	Lys
			660				665						670	Leu
Ile	Ser	Met	Met	Asp	Gly	Asp	Ile	Ser	Val	Asp	Thr	Glu	Pro	Gly
	675					680						685		Met
Gly	Ser	Gln	Phe	Thr	Ile	Arg	Ile	Pro	Leu	Tyr	Ser	Ala	His	Tyr
	690					695					700			Pro
Ala	Lys	Thr	Thr	Val	Asp	Gly	Leu	Ser	Asp	Lys	His	Cys	Trp	Leu
705					710					715				720
Val	His	Asn	Ala	Ser	Leu	His	Asp	Phe	Leu	Thr	Ser	Met	Leu	Thr
				725					730					735
Ser	Gly	Val	Arg	Val	Ser	Arg	Tyr	Glu	Gly	Gln	Thr	Pro	Gly	Ala
				740				745					750	Asp
Asp	Met	Leu	Ile	Thr	Asp	Val	Glu	Pro	Glu	Gln	Ala	Trp	Ala	Gly
	755						760					765		Arg
Gly	Val	Val	Met	Phe	Cys	Arg	Arg	His	Ile	Gly	Ile	Pro	Leu	Glu
	770					775					780			Arg
Ser	Pro	Gly	Val	Trp	Val	His	Ser	Val	Ala	Thr	Pro	His	Glu	Leu
785					790				795					800
Gly	Leu	Leu	Ala	Arg	Ile	Tyr	Ser	Val	Gln	Leu	Glu	Asp	Ser	Asp
				805					810					815
Ala	Thr	Val	Leu	Ala	Ser	Pro	Asp	Glu	Leu	Ala	Ser	Val	Asn	Asp
			820					825					830	Asp
Met	Met	Ile	Leu	Val	Val	Asp	Asp	His	Pro	Ile	Asn	Arg	Arg	Leu
	835						840					845		Leu
Ala	Asp	Gln	Leu	Gly	Ser	Leu	Gly	Tyr	Gln	Cys	Lys	Thr	Ala	Asn
	850					855					860			Asp
Gly	Val	Asp	Ala	Leu	Asn	Val	Leu	Ser	Lys	Asn	His	Ile	Asp	Ile
865					870				875					880

Leu	Ser	Asp	Val	Asn	Met	Pro	Asn	Met	Asp	Gly	Tyr	Arg	Leu	Thr	Gln
				885					890					895	
Arg	Ile	Arg	Gln	Leu	Gly	Leu	Thr	Leu	Pro	Val	Val	Gly	Val	Thr	Ala
			900					905					910		
Asn	Ala	Leu	Ala	Glu	Glu	Lys	Gln	Arg	Cys	Leu	Glu	Ser	Gly	Met	Asp
		915					920					925			
Ser	Cys	Leu	Ser	Lys	Pro	Val	Thr	Leu	Asp	Val	Leu	Lys	Gln	Thr	Leu
	930					935					940				
Ser	Val	Tyr	Ala	Glu	Arg	Val	Arg	Lys	Ala	Arg	Gln				
945					950					955					

<210> 9781

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9781

Tyr	Arg	Phe	Cys	Tyr	Val	Arg	Cys	Gly	Pro	Leu	Ile	Met	His	Glu	Asn
1				5				10						15	
Gln	Gln	Pro	Gln	Thr	Glu	Ala	Phe	Glu	Leu	Ser	Glu	Ala	Glu	Arg	Ala
		20						25					30		
Ala	Ile	Glu	His	Glu	Met	His	His	Tyr	Glu	Asp	Pro	Arg	Ala	Ala	Ser
		35					40					45			
Ile	Glu	Ala	Leu	Lys	Ile	Val	Gln	Lys	Gln	Arg	Gly	Trp	Val	Pro	Asp
	50				55						60				
Gly	Ala	Ile	Tyr	Ala	Ile	Ala	Glu	Val	Leu	Gly	Ile	Pro	Ala	Ser	Asp
65				70					75					80	
Val	Glu	Gly	Val	Ala	Thr	Phe	Tyr	Ser	Gln	Ile	Phe	Arg	Gln	Pro	Val
				85					90					95	
Gly	Arg	His	Val	Ile	Arg	Tyr	Cys	Asp	Ser	Val	Val	Cys	His	Ile	Thr
		100						105					110		
Gly	Tyr	Gln	Gly	Ile	Gln	Ala	Ala	Ile	Glu	Lys	Lys	Leu	Asn	Ile	Lys
		115					120					125			
Pro	Gly	Gln	Thr	Thr	Phe	Asp	Gly	Arg	Phe	Thr	Leu	Leu	Pro	Thr	Cys
	130					135					140				
Cys	Leu	Gly	Asn	Cys	Asp	Lys	Gly	Pro	Thr	Met	Met	Ile	Asp	Glu	Asp
145				150						155				160	
Thr	His	Ser	His	Leu	Thr	Pro	Glu	Ala	Ile	Pro	Asp	Leu	Leu	Glu	Gln
				165					170					175	

Tyr Lys

<210> 9782

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9782

Cys	Trp	Lys	Ala	Gly	Ala	Gly	Cys	Thr	Leu	Cys	Thr	Ala	Pro	Cys	Arg
1				5					10					15	
Ala	Val	Lys	Trp	Thr	Gly	Arg	Ser	Ser	Thr	Thr	Leu	Ser	Thr	Arg	Leu
		20						25					30		
Leu	Arg	Asn	Cys	Leu	Ser	Trp	Arg	Val	Leu	Lys	Met	Pro	Arg	Arg	Thr
		35					40					45			
Gln	Ala	Ser	Ala	Phe	Ala	Ala	Arg	Asn	Trp	Arg	Val	Ser	Arg	Thr	Ala
	50				55						60				
Thr	Ala	Val	Val	Pro	Arg	Cys	Ala	Pro	Thr	Ser	Ala	Cys	Thr	Asn	Arg
65				70						75				80	
Val	Ser	Arg	Arg	Ile	Lys	Thr	Pro	Cys	Ser	Pro	Ser	Arg	Trp	Lys	Gly
				85					90					95	

Thr Thr Ser Arg Leu Arg Arg Val Arg Lys Ser Arg Leu His Gly His

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<210> 9783
<211> 217
<212> PRT
<213> Enterobacter cloacae
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<210> 9784
<211> 112
<212> PRT
<213> Enterobacter cloacae
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<400> 9784															
Arg	Pro	Arg	Glu	Lys	Lys	Asn	Gly	Gly	Thr	Arg	Met	Ile	Pro	Leu	Thr
1				5					10					15	
His	Gly	Leu	Ile	Leu	Ala	Ala	Ile	Leu	Phe	Val	Leu	Gly	Leu	Thr	Gly
			20					25					30		
Leu	Val	Ile	Arg	Arg	Asn	Leu	Leu	Phe	Met	Leu	Ile	Gly	Leu	Glu	Ile
			35				40					45			
Met	Ile	Asn	Ala	Ser	Ala	Leu	Ala	Phe	Val	Val	Ala	Gly	Ser	Tyr	Trp
	50					55					60				
Gly	Gln	Thr	Asp	Gly	Gln	Val	Met	Tyr	Ile	Leu	Ala	Ile	Ser	Leu	Ala
65					70					75					80
Ala	Ala	Glu	Ala	Ser	Ile	Gly	Leu	Ala	Leu	Leu	Leu	Gln	Leu	His	Arg
				85					90					95	
Arg	Arg	Gln	Asn	Leu	Asn	Ile	Asp	Ser	Val	Ser	Glu	Leu	Arg	Gly	
			100					105					110		

<210> 9785
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 9785
 Tyr Asn Val Met Asn Pro Arg Lys Glu Lys His Met Ile Gln Trp Gln
 1 5 10 15
 Asp Leu His His Ser Glu Leu Thr Val Gln Ser Leu Tyr Ala Leu Leu
 20 25 30
 Lys Leu Arg Cys Glu Val Phe Val Val Glu Gln Thr Cys Pro Tyr Gln
 35 40 45
 Asp Ile Asp Gly Asp Asp Leu Val Gly Glu Asn Arg His Ile Leu Gly
 50 55 60
 Trp Arg Asp Asn Glu Leu Val Ala Tyr Ala Arg Ile Leu Lys Ser Glu
 65 70 75 80
 Glu Glu Phe Asp Pro Val Val Ile Gly Arg Val Ile Ile Ser Gly Arg
 85 90 95
 Ala Arg Gly Glu Lys Leu Gly Tyr Gln Leu Met Glu Lys Thr Leu Asp
 100 105 110
 Ala Cys Gln Lys Gln Trp Pro Asp Lys Ala Leu Tyr Leu Gly Ala Gln
 115 120 125
 Ala His Leu Gln Ser Phe Tyr Gly His Phe Gly Phe Thr Pro Val Thr
 130 135 140
 Asp Ile Tyr Asp Glu Asp Gly Ile Pro His Ile Gly Met Ala Arg Glu
 145 150 155 160
 Ala Lys Gln Ala Gln
 165

<210> 9786
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 9786
 Ala Ile Leu Thr Ala Gly Trp Asn Cys Ile Arg Arg Lys Asn Ala Asn
 1 5 10 15
 Pro Gly Arg Trp Arg Ser Arg Arg Cys His Val Arg Arg Gly Asn Ser
 20 25 30
 Pro Lys Arg Ser Ala Arg Arg Ser Val Lys Pro Gly Trp Arg Thr Val
 35 40 45
 Ser Ala Asn Ile Phe Pro Ser Arg Asp Asn Phe Leu Ser Val Thr Ala
 50 55 60
 Trp Trp Cys Ala
 65

<210> 9787
 <211> 323
 <212> PRT
 <213> Enterobacter cloacae

<400> 9787
 Arg His Ala Ser Cys Tyr Pro Ser Arg Arg Thr Gln Arg Pro Pro Gly
 1 5 10 15
 Gln Pro Gly Ser Cys Cys Arg Glu Ser Gly Ser Asp Thr Ala Leu Ser
 20 25 30
 Asn Lys Gly His Ala Met Ile Tyr Pro Asp Glu His Met Leu Tyr Ala
 35 40 45
 Pro Val Glu Trp Gln Asp Cys Ser Glu Gly Tyr Thr Asp Ile Arg Tyr
 50 55 60

His Lys Ser Ala Asp Gly Ile Ala Lys Ile Thr Ile Asn Arg Pro Gln
 65 70 75 80
 Val Arg Asn Ala Phe Arg Pro Leu Thr Val Lys Glu Met Ile Gln Ala
 85 90 95
 Leu Ala Asp Ala Arg Tyr Asp Asp Thr Val Gly Val Ile Ile Leu Thr
 100 105 110
 Gly Glu Gly Glu Lys Ala Phe Cys Ser Gly Gly Asp Gln Lys Val Arg
 115 120 125
 Gly Asp Tyr Gly Gly Tyr Gln Asp Asp Ala Gly Thr His His Leu Asn
 130 135 140
 Val Leu Asp Phe Gln Arg Gln Ile Arg Thr Cys Pro Lys Pro Val Val
 145 150 155 160
 Ala Met Val Ala Gly Tyr Ser Ile Gly Gly His Val Leu His Met
 165 170 175
 Met Cys Asp Leu Thr Ile Ala Ala Glu Asn Ala Ile Phe Gly Gln Thr
 180 185 190
 Gly Pro Lys Val Gly Ser Phe Asp Gly Gly Trp Gly Ala Ser Tyr Met
 195 200 205
 Ala Arg Ile Val Gly Gln Lys Lys Ala Arg Glu Ile Trp Phe Leu Cys
 210 215 220
 Arg Gln Tyr Asn Ala Gln Glu Ala Leu Asp Met Gly Leu Val Asn Thr
 225 230 235 240
 Val Val Pro Ile Ala Asp Leu Glu Lys Glu Thr Val Arg Trp Cys Arg
 245 250 255
 Glu Met Leu Gln Asn Ser Pro Met Ala Leu Arg Cys Leu Lys Ala Ala
 260 265 270
 Leu Asn Ala Asp Cys Asp Gly Gln Ala Gly Leu Gln Glu Leu Ala Gly
 275 280 285
 Asn Ala Thr Met Leu Phe Tyr Met Thr Glu Glu Gly Gln Glu Gly Arg
 290 295 300
 Asn Ala Phe Asn Glu Lys Arg Gln Pro Asp Phe Ser Lys Tyr Lys Arg
 305 310 315 320
 Asn Pro

<210> 9788

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 9788

Leu Leu Arg Leu Gly Arg Arg Leu Tyr Gly Asp Asp Arg Arg Gln Arg
 1 5 10 15
 Ala Gly Gly Ser Ala Ala Gly Cys Cys Asp Asp Arg Arg Glu Thr Ser
 20 25 30
 Pro Arg Gly Ser Ala Gly Ala Ser Ser Ile Arg Ser Ile Ala Met Lys
 35 40 45
 Leu Thr Pro Leu Thr Thr Gly Leu Leu Leu Ala Gly Leu Met Thr Gly
 50 55 60
 Ser Ala Leu Ala Ala Asp Lys Ile Val Ile Ala His Arg Gly Ala Ser
 65 70 75 80
 Gly Tyr Leu Pro Glu His Thr Leu Pro Ala Lys Ala Met Ala Tyr Ala
 85 90 95
 Gln Gly Ala Asp Tyr Leu Glu Gln Asp Leu Val Met Thr Lys Asp Asp
 100 105 110
 Gln Leu Val Val Leu His Asp His Tyr Leu Asp Arg Val Thr Asp Val
 115 120 125
 Ala Glu Arg Phe Pro Asp Arg Ala Arg Lys Asp Gly Arg Tyr Tyr Ala
 130 135 140
 Ile Asp Phe Thr Leu Asp Glu Ile Arg Ser Leu Lys Phe Thr Glu Gly
 145 150 155 160

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Phe Glu Ile Glu Asn Gly Lys Lys Val Gln Val Tyr Pro Gly Arg Phe
      165      170      175
Pro Met Gly Lys Ser Asp Phe Arg Ile His Thr Phe Gln Glu Ile
      180      185      190
Glu Phe Val Gln Gly Leu Asn His Ser Thr Gly Lys Asn Ile Gly Ile
      195      200      205
Tyr Pro Glu Ile Lys Ala Pro Trp Phe His His Gln Glu Gly Lys Asp
      210      215      220
Ile Ala Ala Lys Thr Leu Glu Val Leu Lys Gln Tyr Gly Tyr Thr Ser
      225      230      235      240
Lys Lys Asp Lys Val Tyr Leu Gln Cys Phe Asp Ala Ala Glu Leu Lys
      245      250      255
Arg Ile Lys Thr Glu Leu Glu Pro Lys Met Gly Met Asp Leu Asn Leu
      260      265      270
Val Gln Leu Ile Ala Tyr Thr Asp Trp Asn Glu Thr Gln Glu Lys Gln
      275      280      285
Pro Asp Gly Lys Trp Val Asn Tyr Ser Tyr Asp Trp Met Phe Lys Pro
      290      295      300
Gly Ala Met Lys Gln Ile Ala Gln Tyr Ala Asp Gly Ile Gly Pro Asp
      305      310      315      320
Tyr His Met Leu Val Ala Glu Gly Ser Thr Pro Gly His Val Lys Leu
      325      330      335
Thr Ala Met Val Lys Glu Ala His Ala Ser Lys Met Gln Val His Pro
      340      345      350
Tyr Thr Val Arg Ala Asp Gln Leu Pro Pro Tyr Ala Thr Asp Val Asn
      355      360      365
Gln Leu Tyr Glu Val Leu Tyr Lys Gln Ala Asp Val Asp Gly Leu Phe
      370      375      380
Thr Asp Phe Pro Asp Lys Ala Val Thr Phe Leu Lys
      385      390      395

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<210> 9789

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 9789

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Phe Val Arg Lys Met Pro Leu Ala Leu Lys Asn Thr Ser Ala Thr Leu
1      5      10      15
Thr Leu Thr Ser Arg Ala Cys Cys Ser Lys Val Ala Leu Tyr Met Asn
      20      25      30
Asn Met Asn Val Ile Ile Ala Asp Asp His Pro Ile Val Leu Phe Gly
      35      40      45
Ile Arg Lys Ser Leu Glu Gln Ile Glu Trp Val Asn Val Val Gly Glu
      50      55      60
Phe Glu Asp Ser Thr Ala Leu Ile Asn Asn Leu Pro Lys Leu Asp Ala
      65      70      75      80
His Val Leu Ile Thr Asp Leu Ser Met Pro Gly Asp Lys Tyr Gly Asp
      85      90      95
Gly Ile Thr Leu Ile Lys Tyr Ile Lys Arg His Phe Pro Asp Ile Ser
      100      105      110
Ile Ile Val Leu Thr Met Asn Asn Asn Pro Ala Ile Leu Ser Ala Val
      115      120      125
Leu Asp Leu Asp Ile Glu Gly Ile Val Leu Lys Gln Gly Ala Pro Thr
      130      135      140
Asp Leu Pro Lys Ala Leu Ala Ala Leu Gln Lys Gly Lys Lys Phe Thr
      145      150      155      160
Pro Glu Ser Val Ser Arg Leu Leu Glu Lys Ile Ser Ala Gly Gly Tyr
      165      170      175
Gly Asp Lys Arg Leu Ser Pro Lys Glu Ser Glu Val Leu Arg Leu Phe
      180      185      190

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Ala Glu Gly Phe Leu Val Thr Glu Ile Ala Lys Lys Leu Asn Arg Ser
 195 200 205
 Ile Lys Thr Ile Ser Ser Gln Lys Lys Ser Ala Met Met Lys Leu Gly
 210 215 220
 Val Asp Asn Asp Ile Ala Leu Leu Asn Tyr Leu Ser Ser Val Thr Leu
 225 230 235 240
 Ser Ala Thr Asp Lys Asp
 245

<210> 9790

<211> 776

<212> PRT

<213> Enterobacter cloacae

<400> 9790

Gly Gly Gly Tyr Phe Leu Phe His Gly Gln Val Lys Thr His Met Asn
 1 5 10 15
 Gln Ser Leu Leu Val Thr Lys Arg Asp Gly Thr Thr Glu Arg Ile Asn
 20 25 30
 Leu Asp Lys Ile His Arg Val Leu Asp Trp Ala Ala Glu Gly Leu Asn
 35 40 45
 Asn Val Ser Ile Ser Gln Val Glu Leu Arg Ser His Ile Gln Phe Tyr
 50 55 60
 Asp Gly Ile Lys Thr Ser Asp Ile His Glu Thr Ile Ile Lys Ala Ala
 65 70 75 80
 Ala Asp Leu Ile Ser Arg Asp Ala Pro Asp Tyr Gln Tyr Leu Ala Ala
 85 90 95
 Arg Leu Ala Ile Phe His Leu Arg Lys Lys Ala Tyr Gly Gln Phe Glu
 100 105 110
 Pro Pro Lys Leu Tyr Asp His Val Val Lys Met Val Glu Leu Gly Lys
 115 120 125
 Tyr Asp Thr His Leu Leu Glu Asp Tyr Thr Glu Glu Glu Phe Glu Gln
 130 135 140
 Met Asn Gly Phe Ile Asp His Trp Arg Asp Met Asn Phe Ser Tyr Ala
 145 150 155 160
 Ala Val Lys Gln Leu Glu Gly Lys Tyr Leu Val Gln Asn Arg Val Thr
 165 170 175
 Gly Glu Ile Tyr Glu Ser Ala Gln Phe Leu Tyr Ile Leu Val Ala Ala
 180 185 190
 Cys Leu Phe Ser Asn Tyr Pro Arg Glu Thr Arg Leu Asp Tyr Val Lys
 195 200 205
 Arg Phe Tyr Asp Ala Val Ser Thr Phe Lys Ile Ser Leu Pro Thr Pro
 210 215 220
 Ile Met Ser Gly Val Arg Thr Pro Thr Arg Gln Phe Ser Ser Cys Val
 225 230 235 240
 Leu Ile Glu Cys Gly Asp Ser Leu Asp Ser Ile Asn Ala Thr Ser Ser
 245 250 255
 Ala Ile Val Lys Tyr Val Ser Gln Arg Ala Gly Ile Gly Ile Asn Ala
 260 265 270
 Gly Arg Ile Arg Ala Leu Gly Ser Pro Ile Arg Gly Gly Glu Ala Phe
 275 280 285
 His Thr Gly Cys Ile Pro Phe Tyr Lys His Phe Gln Thr Ala Val Lys
 290 295 300
 Ser Cys Ser Gln Gly Gly Val Arg Gly Gly Ala Ala Thr Leu Phe Tyr
 305 310 315 320
 Pro Met Trp His Leu Glu Val Glu Ser Leu Leu Val Leu Lys Asn Asn
 325 330 335
 Arg Gly Val Glu Gly Asn Arg Val Arg His Met Asp Tyr Gly Val Gln
 340 345 350
 Ile Asn Lys Leu Met Tyr Thr Arg Leu Leu Lys Gly Glu Asp Ile Thr
 355 360 365

Leu Phe Ser Pro Ser Asp Val Pro Gly Leu Tyr Asp Ala Phe Phe Ala
 370 375 380
 Asp Gln Asp Glu Phe Glu Arg Leu Tyr Thr Lys Tyr Glu Lys Asp Asp
 385 390 395 400
 Ser Ile Arg Lys Gln Arg Val Lys Ala Val Asp Leu Phe Ser Leu Met
 405 410 415
 Met Gln Glu Arg Ala Ser Thr Gly Arg Ile Tyr Ile Gln Asn Val Asp
 420 425 430
 His Cys Asn Thr His Ser Pro Phe Asp Pro Val Val Ala Pro Val Arg
 435 440 445
 Gln Ser Asn Leu Cys Leu Glu Ile Ala Leu Pro Thr Lys Pro Leu Asp
 450 455 460
 Asp Val Asn Asp Glu Asn Gly Glu Ile Ala Leu Cys Thr Leu Ser Ala
 465 470 475 480
 Phe Asn Leu Gly Ala Ile Lys Ser Leu Asp Glu Leu Glu Glu Leu Ala
 485 490 495
 Val Leu Ala Val Arg Ala Leu Asp Ala Leu Leu Asp Tyr Gln Asp Tyr
 500 505 510
 Pro Ile Pro Ala Ala Lys Arg Gly Ala Met Gly Arg Arg Thr Leu Gly
 515 520 525
 Ile Gly Val Ile Asn Phe Ala Tyr Trp Leu Ala Lys Asn Gly Lys Arg
 530 535 540
 Tyr Ser Asp Gly Ser Ala Asn Asn Leu Thr His Gln Thr Phe Glu Ala
 545 550 555 560
 Ile Gln Tyr Tyr Leu Met Lys Ala Ser Asn Glu Leu Ala Lys Glu Gln
 565 570 575
 Gly Ala Cys Pro Trp Phe Asn Glu Thr Thr Tyr Ala Lys Gly Ile Leu
 580 585 590
 Pro Ile Asp Thr Tyr Lys Lys Asp Leu Asp Ala Ile Val Ser Glu Pro
 595 600 605
 Leu His Leu Asp Trp Glu Gly Leu Arg Glu Ser Ile Lys Thr His Gly
 610 615 620
 Leu Arg Asn Ser Thr Leu Ser Ala Leu Met Pro Ser Glu Thr Ser Ser
 625 630 635 640
 Gln Ile Ser Asn Ala Thr Asn Gly Ile Glu Pro Pro Arg Gly His Val
 645 650 655
 Ser Ile Lys Ala Ser Lys Asp Gly Val Leu Arg Gln Val Val Pro Asp
 660 665 670
 Tyr Glu Thr Leu Gly Asp Asn Tyr Glu Leu Leu Trp Glu Met Pro Asn
 675 680 685
 Asn Asp Gly Tyr Leu Gln Leu Val Gly Ile Met Gln Lys Phe Ile Asp
 690 695 700
 Gln Ser Ile Ser Ala Asn Thr Asn Tyr Asp Pro Thr Arg Phe Pro Ser
 705 710 715 720
 Gly Lys Val Pro Met Gln Gln Leu Leu Lys Asp Leu Leu Thr Ala Tyr
 725 730 735
 Lys Phe Gly Val Lys Thr Leu Tyr Tyr His Asn Thr Arg Asp Gly Ala
 740 745 750
 Glu Asp Ala Gln Asp Asp Leu Ala Pro Ser Ile Gln Asp Asp Gly Cys
 755 760 765
 Glu Ser Gly Ala Cys Lys Ile
 770 775

<210> 9791

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 9791

Pro Ser Pro Thr Gly Arg Gly Asn Ser Phe Pro Leu Ser Leu Trp Glu
 1 5 10 15

Arg Ala Gly Val Arg Gly Asn Asn Thr Thr Gly Leu Thr Ala Met Ala
 20 25 30
 Tyr Thr Thr Phe Ser Gln Thr Lys Asn Asp Gln Leu Lys Glu Pro Met
 35 40 45
 Phe Phe Gly Gln Pro Val Asn Val Ala Arg Tyr Asp Gln Gln Lys Tyr
 50 55 60
 Asp Ile Phe Glu Lys Leu Ile Glu Lys Gln Leu Ser Phe Phe Trp Arg
 65 70 75 80
 Pro Glu Glu Val Asp Val Ser Arg Asp Arg Ile Asp Phe Gln Ala Leu
 85 90 95
 Pro Glu His Glu Lys His Ile Phe Leu Ser Asn Leu Lys Tyr Gln Thr
 100 105 110
 Leu Leu Asp Ser Ile Gln Gly Arg Ser Pro Asn Val Ala Leu Leu Pro
 115 120 125
 Leu Ile Ser Ile Pro Glu Leu Glu Thr Trp Val Glu Thr Trp Ala Phe
 130 135 140
 Ser Glu Thr Ile His Ser Arg Ser Tyr Thr His Ile Ile Arg Asn Ile
 145 150 155 160
 Val Asn Asp Pro Ala Val Val Phe Asp Asp Ile Val Thr Asn Glu Gln
 165 170 175
 Ile Gln Lys Arg Ala Glu Gly Ile Ala His Tyr Tyr Asp Glu Leu Ile
 180 185 190
 Glu Met Thr Ser Tyr Trp His Leu Gly Glu Gly Thr His Asn Val
 195 200 205
 Asn Gly Lys Thr Val Thr Val Asn Leu Arg Ala Leu Lys Lys Gln Leu
 210 215 220
 Tyr Leu Cys Leu Met Ser Val Asn Ala Leu Glu Ala Ile Arg Phe Tyr
 225 230 235 240
 Val Ser Phe Ala Cys Ser Phe Ala Phe Ala Glu Arg Lys Leu Met Glu
 245 250 255
 Gly Asn Ala Lys Ile Ile Arg Leu Ile Ala Arg Asp Glu Ala Leu His
 260 265 270
 Leu Thr Gly Thr Gln His Met Leu Asn Leu Leu Arg Ser Gly Ala Asp
 275 280 285
 Asp Pro Glu Met Ala Glu Ile Ala Glu Glu Cys Lys Gln Glu Cys Tyr
 290 295 300
 Asp Leu Phe Leu Gln Ala Gln Gln Glu Lys Glu Trp Ala Asp Tyr
 305 310 315 320
 Leu Phe Arg Asp Gly Ser Met Ile Gly Leu Asn Lys Asp Ile Leu Cys
 325 330 335
 Gln Tyr Val Glu Tyr Ile Thr Asn Ile Arg Met Gln Ala Val Gly Leu
 340 345 350
 Asp Leu Pro Phe Gln Thr Arg Ser Asn Pro Ile Pro Trp Ile Asn Thr
 355 360 365
 Trp Leu Val Ser Asp Asn Val Gln Val Ala Pro Gln Glu Val Glu Val
 370 375 380
 Ser Ser Tyr Leu Val Gly Gln Ile Asp Ser Glu Val Asn Thr Asp Asp
 385 390 395 400
 Leu Ser Asp Phe Gln Leu
 405

<210> 9792

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 9792

Leu Thr Glu His Ala Met Asp Thr Trp Ile Tyr Leu Ser Gln Gly Phe
 1 5 10 15
 Ala Val Ala Met Thr Pro Glu Asn Leu Val Ile Ala Leu Ile Gly Cys
 20 25 30

Phe	Val	Gly	Thr	Ile	Val	Gly	Leu	Leu	Pro	Gly	Leu	Gly	Pro	Ile	Asn
		35					40					45			
Gly	Val	Ala	Ile	Leu	Leu	Pro	Leu	Ala	Phe	Ala	Leu	His	Leu	Pro	Ala
	50					55					60				
Glu	Ser	Ala	Leu	Ile	Leu	Leu	Ala	Thr	Val	Tyr	Ile	Gly	Cys	Glu	Tyr
65					70					75					80
Gly	Gly	Arg	Ile	Ser	Ser	Ile	Leu	Leu	Asn	Val	Pro	Gly	Asp	Ala	Ala
				85					90					95	
Ala	Ile	Met	Thr	Ala	Leu	Asp	Gly	Tyr	Pro	Met	Ala	Gln	Gln	Gly	Arg
			100					105					110		
Gly	Gly	Val	Ala	Leu	Ser	Ile	Ser	Ala	Val	Ser	Ser	Phe	Phe	Gly	Ser
		115					120					125			
Leu	Ile	Ala	Ile	Gly	Gly	Ile	Ile	Leu	Phe	Ala	Pro	Ala	Leu	Ala	Gln
	130					135					140				
Trp	Ser	Leu	Ala	Phe	Gly	Pro	Ala	Glu	Tyr	Phe	Ala	Leu	Met	Val	Phe
145					150					155					160
Ala	Ile	Ala	Cys	Leu	Gly	Ser	Met	Met	Ala	Gln	Asn	Pro	Leu	Lys	Ser
				165					170					175	
Phe	Leu	Ser	Ala	Leu	Ile	Gly	Leu	Ser	Leu	Ala	Thr	Val	Gly	Val	Asp
			180					185					190		
Ala	Asn	Thr	Gly	Val	Tyr	Arg	Phe	Thr	Phe	Asp	Ser	Val	His	Leu	Ser
		195					200					205			
Asp	Gly	Val	Gln	Phe	Ile	Val	Val	Val	Ile	Gly	Leu	Phe	Ser	Val	Ser
	210					215					220				
Glu	Ile	Leu	Leu	Met	Leu	Glu	His	Thr	Ser	Ser	Gly	Gln	Thr	Leu	Val
225					230					235					240
Arg	Lys	Thr	Gly	Arg	Met	Leu	Phe	Asn	Ala	Lys	Glu	Gly	Ala	Gln	Cys
				245					250					255	
Val	Gly	Ala	Thr	Leu	Arg	Ser	Ser	Val	Ile	Gly	Phe	Phe	Val	Gly	Ile
			260					265					270		
Leu	Pro	Gly	Ala	Gly	Ala	Thr	Ile	Ala	Ser	Ala	Ile	Thr	Tyr	Met	Thr
		275					280					285			
Glu	Lys	Lys	Leu	Ser	Gly	Asn	Ser	Asp	Ser	Phe	Gly	Lys	Gly	Asp	Ile
	290					295					300				
Arg	Gly	Val	Ala	Ala	Pro	Glu	Ala	Ala	Asn	Asn	Ala	Ser	Ala	Cys	Gly
305					310					315					320
Ser	Phe	Ile	Pro	Met	Leu	Thr	Leu	Gly	Val	Pro	Gly	Ser	Gly	Thr	Thr
				325					330					335	
Ala	Val	Met	Met	Gly	Ala	Leu	Thr	Leu	Tyr	Asn	Ile	Thr	Pro	Gly	Pro
			340					345					350		
Ala	Met	Phe	Thr	Glu	Gln	Pro	Asp	Ile	Val	Trp	Gly	Leu	Ile	Ala	Ala
		355					360					365			
Leu	Leu	Ile	Ala	Asn	Val	Met	Leu	Leu	Val	Met	Asn	Ile	Pro	Leu	Ile
	370					375					380				
Gly	Leu	Phe	Thr	Arg	Met	Leu	Thr	Ile	Pro	Leu	Trp	Phe	Leu	Val	Pro
385					390					395					400
Ala	Ile	Ala	Ala	Val	Ser	Ala	Val	Gly	Val	Tyr	Ala	Val	His	Ser	Thr
				405					410					415	
Thr	Phe	Asp	Leu	Val	Leu	Met	Val	Leu	Gly	Val	Leu	Gly	Tyr	Ile	
			420					425					430		
Leu	Arg	Lys	Met	His	Phe	Pro	Met	Ser	Pro	Leu	Ile	Leu	Gly	Phe	Val
		435					440					445			
Leu	Gly	Glu	Met	Leu	Glu	Gln	Asn	Leu	Arg	Arg	Ala	Leu	Ser	Ile	Ser
	450					455					460				
Asn	Gly	Asn	Met	Gly	Ile	Leu	Trp	Glu	Ser	Ser	Val	Thr	Lys	Ile	Leu
465					470					475					480
Leu	Ala	Met	Ala	Ile	Met	Val	Ile	Val	Val	Pro	Pro	Val	Leu	Arg	Trp
				485					490					495	
Ile	Arg	Arg	Arg	Gln	His	Lys	Pro	Gln	Pro	Asp	Ile	Gly			
			500					505					510		

<210> 9793
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 9793

Ala	Gly	Arg	Arg	Val	Thr	Ala	Arg	Ser	Val	Arg	Cys	Gly	Val	Asp	Leu
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Ala	Thr	Gly	Ser	Cys	Val	Ser	Pro	Ser	Trp	Gly	Ser	Ser	Arg	Tyr	Thr
		20						25					30		
Lys	Pro	Leu	Pro	Ile	Arg	Gln	Arg	Ala	Asp	Cys	Val	Met	Glu	Leu	Ile
		35					40					45			
Phe	Leu	Gly	Thr	Ser	Ala	Gly	Val	Pro	Thr	Arg	Ser	Arg	Asn	Val	Thr
	50					55					60				
Ala	Ile	Leu	Leu	Asp	Leu	Lys	His	Pro	Thr	Arg	Gly	Gly	Leu	Trp	Leu
65					70					75					80
Phe	Asp	Cys	Gly	Glu	Gly	Thr	Gln	His	Gln	Met	Leu	His	Thr	Ser	Tyr
			85						90					95	
His	Pro	Gly	Lys	Val	Asp	Lys	Ile	Phe	Ile	Thr	His	Leu	His	Gly	Asp
		100						105					110		
His	Leu	Phe	Gly	Leu	Pro	Gly	Leu	Leu	Cys	Ser	Arg	Ser	Met	Ala	Gly
	115						120					125			
Asn	Ala	Asn	Pro	Leu	Thr	Ile	Tyr	Gly	Pro	Ala	Gly	Ile	Gln	Glu	Phe
	130					135					140				
Val	Glu	Thr	Thr	Leu	Arg	Leu	Ser	Gly	Ser	Trp	Thr	Asp	Tyr	Pro	Leu
145					150					155					160
Glu	Val	Val	Glu	Ile	Gly	Glu	Gly	Leu	Val	Phe	Asp	Asp	Gly	Asp	Tyr
			165						170					175	
Gln	Val	Arg	Ala	Tyr	Pro	Leu	Asn	His	Pro	Val	Glu	Cys	Tyr	Gly	Tyr
		180						185					190		
Arg	Val	Glu	Glu	His	Asp	Lys	Pro	Gly	Ala	Leu	Asn	Ala	Ala	Ala	Leu
		195					200					205			
Gln	Ala	Asp	Gly	Val	Lys	Pro	Gly	Pro	Leu	Phe	Gln	Arg	Leu	Lys	His
	210					215					220				
Gly	Glu	Thr	Val	Thr	Leu	Glu	Asp	Gly	Arg	Val	Ile	Asn	Gly	Gln	Asp
225					230					235					240
Tyr	Leu	Ala	Pro	Pro	Gln	Pro	Gly	Lys	Lys	Leu	Ala	Ile	Phe	Gly	Asp
			245						250					255	
Thr	Ala	Pro	Cys	Pro	Ser	Ala	Leu	Arg	Leu	Ala	Gly	Gly	Val	Asp	Val
			260					265					270		
Met	Val	His	Glu	Ala	Thr	Leu	Glu	Ala	Ala	Met	Glu	Glu	Lys	Ala	Asn
		275					280					285			
Ser	Arg	Gly	His	Ser	Ser	Thr	Arg	Gln	Ala	Ala	Gln	Leu	Ala	Arg	Glu
	290					295					300				
Ala	Gly	Val	Arg	Lys	Leu	Ile	Val	Thr	His	Val	Ser	Ser	Arg	Tyr	Asp
305					310					315					320
Val	Arg	Gly	Ala	Glu	Ser	Leu	Leu	Ala	Glu	Cys	Arg	Glu	Val	Phe	Pro
			325						330					335	
Ala	Cys	Glu	Leu	Ala	Glu	Asp	Phe	Ala	Gln	Val	Ser	Val			
			340					345					350		

<210> 9794
 <211> 248
 <212> PRT
 <213> Enterobacter cloacae

<400> 9794

Gly	Val	Lys	Ala	Pro	Met	Asn	Ala	Glu	Lys	Ser	Pro	Val	Ala	His	Asn
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Val	Asp	His	Glu	Glu	Ile	Ala	Lys	Phe	Glu	Ala	Val	Ala	Ser	Arg	Trp
			20					25					30		

Trp Asp Leu Glu Gly Glu Phe Lys Pro Leu His Arg Ile Asn Pro Leu
 35 40 45
 Arg Leu Gly Tyr Ile Ala Glu Arg Ser Gly Gly Leu Phe Gly Lys Lys
 50 55 60
 Val Leu Asp Val Gly Cys Gly Gly Gly Ile Leu Ala Glu Ser Met Ala
 65 70 75 80
 Arg Glu Gly Ala Thr Val Thr Gly Leu Asp Met Gly Phe Glu Pro Leu
 85 90 95
 Gln Val Ala Arg Leu His Ala Leu Glu Ser Gly Ile Gln Val Glu Tyr
 100 105 110
 Val Gln Glu Thr Val Glu Glu His Ala Ala Lys His Ala His Gln Tyr
 115 120 125
 Asp Val Val Thr Cys Met Glu Met Leu Glu His Val Pro Asp Pro Gln
 130 135 140
 Ser Val Val Ser Ala Cys Ala Asn Leu Val Lys Pro Gly Gly Gln Val
 145 150 155 160
 Phe Phe Ser Thr Ile Asn Arg Asn Gly Lys Ala Trp Leu Met Ala Val
 165 170 175
 Val Gly Ala Glu Tyr Val Leu Arg Met Val Pro Lys Gly Thr His Asp
 180 185 190
 Val Lys Lys Phe Ile Lys Pro Ala Glu Leu Leu Gly Trp Val Asp Gln
 195 200 205
 Thr Trp Leu Lys Glu Gln His Met Thr Gly Leu His Tyr Asn Pro Leu
 210 215 220
 Thr Asp Lys Phe Lys Leu Ala Pro Gly Val Asp Val Asn Tyr Met Leu
 225 230 235 240
 His Thr Thr Ala Lys Asn Asp
 245

<210> 9795

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 9795

Lys Pro Leu Thr Ser Trp Arg Lys Ser Lys Ala Arg Ala Arg Gly Ser
 1 5 10 15
 Thr Lys Pro Leu Thr Arg Lys Ala Phe Cys Arg Ser Thr Pro Ile Lys
 20 25 30
 Lys Thr Trp Met Arg Ser Ser Ala Ser Arg Cys Thr Ser Thr Gly Lys
 35 40 45
 Ala Cys Ala Ser Pro Leu Lys Leu Thr Ala Cys Val Thr Pro Arg Ser
 50 55 60
 Leu Pro
 65

<210> 9796

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 9796

Cys Arg Pro Arg Pro Leu Arg Arg Ser Pro Thr Pro Leu Thr Val Leu
 1 5 10 15
 Ser His Arg Ala Gly Thr Ser Ala Leu Lys Arg Arg Lys Thr Ala Cys
 20 25 30
 Cys Val Arg Trp Tyr Arg Ile Thr Lys Arg Trp Val Thr Thr Ser
 35 40 45
 Cys Cys Gly Lys Cys Gln Thr Thr Thr Ala Thr Ser Asn Trp Trp Val
 50 55 60
 Ser Cys Arg Ser Leu Ser Thr Ser Arg Ser Leu Pro Ile Leu Thr Thr

65					70					75				80
Thr	Arg	Arg	Ala	Ser	Arg	Pro	Ala	Arg	Tyr	Arg	Cys	Ser	Ser	Cys
				85					90					95

<210> 9797

<211> 553

<212> PRT

<213> Enterobacter cloacae

<400> 9797

Met	Leu	Lys	Asn	Glu	His	Arg	Gly	Lys	Ala	Met	Thr	Ile	His	Asp	Pro
1			5						10					15	
Arg	Tyr	Ser	Asp	Val	Ile	Ile	Ile	Gly	Gly	Gly	Ala	Thr	Gly	Ala	Gly
			20					25					30		
Ile	Ala	Arg	Asp	Cys	Ala	Leu	Arg	Gly	Leu	Ser	Val	Thr	Leu	Leu	Glu
			35					40				45			
Arg	His	Asp	Ile	Ala	Thr	Gly	Ala	Thr	Gly	Arg	Asn	His	Gly	Leu	Leu
			50				55				60				
His	Ser	Gly	Ala	Arg	Tyr	Ala	Val	Thr	Asp	Gly	Glu	Ser	Ala	Arg	Glu
65					70				75						80
Cys	Ile	Ala	Glu	Asn	Gln	Ile	Leu	Lys	Arg	Ile	Ala	Arg	His	Cys	Ile
				85					90					95	
Glu	Pro	Thr	Asp	Gly	Leu	Phe	Ile	Thr	Leu	Pro	Glu	Asp	Asp	Leu	Ala
			100					105					110		
Phe	Gln	Ser	Thr	Phe	Ile	Thr	Ala	Cys	Thr	Ala	Ala	Gly	Ile	Gln	Ala
			115				120					125			
Glu	Ala	Met	Asp	Pro	Ala	Leu	Ala	Arg	Arg	Leu	Glu	Pro	Ser	Val	Asn
			130			135					140				
Pro	Thr	Leu	Ile	Gly	Ala	Val	Lys	Val	Pro	Asp	Gly	Thr	Val	Asp	Pro
145					150					155					160
Phe	Arg	Leu	Thr	Ala	Ala	Asn	Met	Leu	Asp	Ala	Arg	Glu	His	Gly	Ala
				165					170					175	
Gln	Ile	Leu	Thr	Gly	His	His	Val	Thr	Gly	Leu	Ile	Arg	Glu	Gly	Asn
			180					185					190		
Thr	Val	Arg	Gly	Val	Arg	Val	Phe	Asp	Ala	Gln	Tyr	Asn	Glu	His	Arg
			195				200					205			
Glu	Leu	Tyr	Ala	Ala	Val	Val	Val	Asn	Ala	Ala	Gly	Ile	Trp	Gly	Gln
			210			215					220				
Arg	Ile	Ala	Glu	Tyr	Ala	Asp	Leu	Ser	Val	Arg	Met	Phe	Pro	Ala	Lys
225					230					235					240
Gly	Ser	Leu	Leu	Ile	Leu	Asp	His	Arg	Ile	Asn	Asn	His	Val	Ile	Asn
				245					250					255	
Arg	Cys	Arg	Lys	Pro	Ser	Asp	Ala	Asp	Ile	Leu	Val	Pro	Gly	Asp	Thr
			260					265					270		
Ile	Ser	Leu	Ile	Gly	Thr	Thr	Ser	Met	His	Val	Asp	Tyr	Ser	Glu	Ile
			275				280					285			
Asp	Tyr	Asn	Arg	Val	Thr	Ala	Glu	Glu	Val	Asp	Ile	Leu	Leu	Arg	Glu
			290			295					300				
Gly	Glu	Lys	Leu	Ala	Pro	Val	Met	Ala	Gln	Thr	Arg	Ile	Leu	Arg	Ala
305					310					315					320
Tyr	Ala	Gly	Val	Arg	Pro	Leu	Val	Ala	Ser	Asp	Asn	Asp	Pro	Ser	Gly
				325					330					335	
Arg	Asn	Val	Ser	Arg	Gly	Ile	Val	Leu	Leu	Asp	His	Ala	Glu	Arg	Asp
				340				345					350		
Gly	Met	Asp	Gly	Phe	Ile	Thr	Ile	Thr	Gly	Gly	Lys	Leu	Met	Thr	Tyr
			355				360					365			
Arg	Leu	Met	Ala	Gln	Trp	Ala	Thr	Asp	Ala	Val	Cys	Arg	Lys	Leu	Gly
					375						380				
Asn	Thr	Ala	Pro	Cys	Val	Thr	Ala	Glu	Gln	Ala	Leu	Pro	Gly	Ser	Gln
385					390					395					400
Gln	Ser	Thr	Glu	Lys	Thr	Leu	His	Lys	Ile	Ile	Ser	Leu	Pro	Ala	Pro

				405					410					415			
Leu	Arg	Gly	Ser	Ala	Ile	Tyr	Arg	His	Gly	Asp	Arg	Thr	Pro	Thr	Trp		
			420					425					430				
Leu	Gly	Glu	Gly	Arg	Leu	Ser	Arg	Ser	Leu	Val	Cys	Glu	Cys	Glu	Ala		
		435					440					445					
Val	Thr	Ala	Gly	Glu	Val	Gln	Tyr	Ala	Val	Glu	Asn	Leu	Thr	Val	Asn		
	450					455					460						
Asn	Leu	Leu	Asp	Leu	Arg	Arg	Arg	Thr	Arg	Val	Gly	Met	Gly	Thr	Cys		
465					470					475					480		
Gln	Gly	Glu	Leu	Cys	Ala	Cys	Arg	Ala	Ala	Gly	Leu	Leu	Gln	Arg	Phe		
				485					490					495			
His	Ala	Thr	Thr	Ser	Thr	Gln	Ser	Leu	Ala	Gln	Leu	Ser	Asp	Phe	Leu		
			500					505					510				
Asn	Glu	Arg	Trp	Lys	Gly	Ile	Gln	Pro	Val	Ala	Trp	Gly	Asp	Ala	Leu		
		515					520					525					
Arg	Glu	Ser	Glu	Phe	Thr	Arg	Trp	Val	Tyr	Gln	Gly	Leu	Cys	Gly	Leu		
	530					535					540						
Glu	Lys	Glu	His	Asn	His	Glu	Ile										
545						550											

<210> 9798

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9798

Lys	Ser	Leu	Arg	His	Arg	Leu	Gly	Ser	Gly	Arg	Val	Arg	Ser	Arg	Gly		
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Ala	Gly	Leu	Arg	Trp	Arg	Arg	Leu	Arg	Arg	His	Arg	Ala	Ala	Cys	Arg		
			20					25					30				
Gly	Ala	Asp	Tyr	Pro	Ala	Gln	Gly	Glu	Ser	Thr	Met	Asn	Asp	Thr	Arg		
		35					40					45					
Phe	Glu	Ser	Cys	Ile	Lys	Cys	Thr	Val	Cys	Thr	Thr	Val	Cys	Pro	Val		
	50					55					60						
Ser	Gly	Val	Asp	Pro	Arg	Tyr	Pro	Gly	Pro	Lys	Gln	Ala	Gly	Pro	Asp		
65					70				75					80			
Gly	Glu	Arg	Leu	Arg	Leu	Lys	Asp	Gly	Ala	Leu	Tyr	Asp	Glu	Ala	Leu		
				85					90					95			
Lys	Tyr	Cys	Ile	Asn	Cys	Lys	Arg	Cys	Glu	Val	Ala	Cys	Pro	Ser	Asp		
			100					105					110				
Val	Lys	Ile	Gly	Asp	Ile	Ile	Gln	Arg	Ala	Arg	Ala	Arg	Tyr	Ser	Thr		
		115					120					125					
Gln	Lys	Pro	Thr	Leu	Arg	Asp	Ala	Ile	Leu	Ser	His	Thr	Asp	Leu	Met		
	130					135						140					
Gly	Ser	Leu	Ser	Thr	Pro	Phe	Ala	Pro	Val	Val	Asn	Ala	Ala	Thr	Ala		
145					150					155					160		
Leu	Lys	Pro	Val	Arg	Arg	Leu	Leu	Asp	Ala	Thr	Leu	Lys	Ile	Asp	His		
				165					170					175			
His	Arg	Ser	Leu	Pro	Lys	Tyr	Ser	His	Gly	Thr	Phe	Arg	Arg	Trp	Tyr		
			180					185					190				
Lys	Ser	Val	Ala	Ala	Glu	Gln	Ala	Gln	Phe	Ala	Glu	Gln	Val	Ala	Phe		
		195					200					205					
Phe	His	Gly	Cys	Tyr	Val	Asn	Tyr	Asn	His	Pro	Gln	Leu	Gly	Lys	Asp		
	210					215					220						
Leu	Leu	Lys	Val	Leu	Asn	Ala	Met	Gly	Thr	Gly	Val	Gln	Leu	Leu	Ser		
225					230					235					240		
Lys	Glu	Lys	Cys	Cys	Gly	Val	Pro	Leu	Ile	Ala	Asn	Gly	Phe	Ile	Asp		
				245					250					255			
Lys	Ala	Arg	Lys	Gln	Ala	Ser	Ser	Asn	Val	Thr	Ser	Leu	Arg	Glu	Ala		
			260					265					270				
Ile	Val	Asp	Lys	Gly	Ile	Pro	Val	Leu	Ala	Thr	Ser	Ser	Thr	Cys	Thr		

	275		280		285										
Phe	Thr	Leu	Arg	Asp	Glu	Tyr	Pro	His	Leu	Leu	Asp	Val	Asp	Asn	Thr
	290					295					300				
Gly	Leu	Arg	Glu	His	Ile	Glu	Leu	Ala	Thr	Arg	Phe	Leu	Trp	Arg	Lys
305					310					315					320
Leu	Asp	Ser	Gly	Gln	Thr	Leu	Pro	Leu	Gly	Lys	Leu	Pro	Leu	Lys	Val
				325					330					335	
Val	Tyr	His	Thr	Pro	Cys	His	Met	Glu	Lys	Met	Gly	Trp	Ser	Ile	Tyr
			340					345					350		
Thr	Leu	Glu	Leu	Leu	Arg	Leu	Ile	Pro	Gly	Leu	Glu	Leu	Thr	Val	Leu
		355					360					365			
Asp	Ser	Arg	Cys	Cys	Gly	Ile	Ala	Gly	Thr	Tyr	Gly	Phe	Lys	Arg	Glu
	370					375					380				
Asn	Tyr	Pro	Thr	Ser	Gln	Ala	Ile	Gly	Ala	Pro	Leu	Phe	Arg	Gln	Ile
385					390					395					400
Glu	Glu	Ser	Gly	Ala	Asp	Ile	Val	Val	Thr	Asp	Cys	Glu	Thr	Cys	Lys
				405				410						415	
Trp	Gln	Ile	Glu	Met	Ser	Thr	Ser	Lys	Arg	Cys	Glu	His	Pro	Ile	Thr
			420				425						430		
Leu	Leu	Ala	Lys	Ala	Leu	Ala									
	435						440								

<210> 9799

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9799

Lys	Ala	Ser	Ile	Ser	Leu	Glu	Gly	Arg	Met	Asp	Asn	Phe	Gln	Lys	Asp
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Ile	Asp	Asp	Arg	Ala	Asn	Leu	Thr	Leu	Ser	Asn	Arg	Phe	Glu	Leu	Leu
			20					25					30		
Leu	Phe	Arg	Leu	Gly	Thr	Ser	Leu	Asn	Glu	Asn	Lys	Ser	Glu	Leu	Phe
		35					40				45				
Gly	Ile	Asn	Val	Phe	Lys	Leu	Arg	Glu	Ile	Val	Pro	Met	Pro	Thr	Phe
	50					55				60					
Thr	Lys	Pro	Ala	Gly	Met	Lys	Ser	Pro	Leu	Met	Gly	Met	Val	Asn	Ile
65				70					75					80	
Arg	Asp	Gln	Val	Ile	Pro	Val	Ile	Asp	Leu	Ala	Ala	Val	Ala	Gly	Cys
				85				90						95	
Lys	Pro	Ala	Thr	Gly	Leu	Asn	Ile	Leu	Leu	Ile	Thr	Glu	Tyr	Ala	Arg
			100				105					110			
Ser	Val	Gln	Ala	Phe	Ala	Val	Glu	Ser	Val	Glu	Asn	Ile	Met	Arg	Leu
		115					120					125			
Asp	Trp	Lys	Gln	Val	His	Ala	Ala	Glu	Thr	Ala	Val	Ser	Gly	Arg	Tyr
	130					135					140				
Ile	Thr	Ser	Ile	Ala	Cys	Leu	Asp	Glu	Lys	Thr	Asp	Thr	Asn	Asp	Leu
145					150					155					160
Ala	Met	Val	Leu	Asp	Val	Glu	Gln	Ile	Leu	Tyr	Asp	Ile	Thr	Pro	Ala
				165				170						175	
Asn	His	Asp	Leu	His	Ala	Thr	His	Leu	Glu	Thr	Thr	Lys	Phe	Asn	Ile
			180				185						190		
Lys	Pro	Gly	Ser	Val	Ala	Ile	Val	Ala	Glu	Asp	Ser	Lys	Val	Ala	Arg
		195					200					205			
Ser	Met	Leu	Glu	Lys	Gly	Leu	Gln	Ala	Met	Glu	Ile	Pro	Ala	Gln	Leu
	210					215					220				
His	Ile	Thr	Gly	Lys	Asp	Ala	Trp	Glu	Lys	Ile	Thr	Gln	Leu	Ala	Ala
225					230					235					240
Gln	Ala	Gln	Ala	Glu	Gly	Val	Pro	Val	Thr	Asp	Lys	Ile	Ala	Leu	Val
				245				250						255	
Leu	Thr	Asp	Leu	Glu	Met	Pro	Glu	Met	Asp	Gly	Phe	Thr	Leu	Thr	Arg

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<210> 9800
<211> 182
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 9801
<211> 351
<212> PRT
<213> Enterobacter cloacae
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Leu	Gly	Trp	Val	Phe	Thr	Phe	Arg	Arg	Thr	Phe	Thr	Val	Ala	Val	Leu
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Gly	Asp	Gly	Gln	Asp	Cys	Ala	Phe	Ala	Thr	Arg	Asn	Asp	Gln	Gly	Asn
			20					25					30		
Asn	Gly	Val	Phe	Thr	Arg	Gln	Leu	Asp	Thr	Thr	His	Ala	Gly	Arg	Arg
		35					40					45			
Thr	Thr	His	Cys	Ala	His	Gly	Val	Leu	Phe	Lys	Ala	His	His	Phe	Thr
	50					55					60				
Gly	Gly	Arg	Glu	Glu	His	His	Phe	Ile	Arg	Thr	Gly	Arg	Gln	Ile	His
65					70				75					80	
Ala	Asp	Gln	Phe	Val	Ala	Phe	Val	Gln	Val	His	Arg	Asp	Asn	Pro	Gly
				85					90					95	


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Arg Thr Trp Thr Ala Glu Leu Gly Gln Cys Gly Phe Leu His Gly Thr
      100      105      110
Ala Arg Gly Arg His Lys Asp Val His Ala Leu Phe Val Leu Ala Tyr
      115      120      125
Arg Gln Tyr Gly Gly Asp Thr Phe Val Arg Phe Gln Arg Gln Gln Val
      130      135      140
Asp Asp Trp Thr Ser Thr Arg Ala Thr Ala Cys Phe Arg Gln Leu Ile
      145      150      155      160
Asp Phe His Pro Val Gln Thr Ala Pro Ala Gly Glu Ala Glu Asp Arg
      165      170      175
Val Met Gly Val Arg His Gln Gln Thr Ile Asn Glu Val Phe Phe Phe
      180      185      190
Asn Thr Arg Arg Arg Phe Ala Phe Thr Ala Pro Thr Leu Ser Phe Val
      195      200      205
Val Gly Gln Arg Leu Ile Leu His Val Ala Leu Val Arg Gln Arg His
      210      215      220
Tyr His Val Phe Ala Val Asp Gln Ile Phe Asn Val Asp Ile Arg Ala
      225      230      235      240
Val Gly Arg Asp Phe Gly Ala Thr Leu Ile Ala Glu Leu Ile Ala Asn
      245      250      255
Gln Leu Gln Leu Phe Thr Asp His Phe His Gln Ala Leu Cys Ala Thr
      260      265      270
Gln Asp Met Gln Gln Leu Gly Asn Leu Leu Gln Gln Leu Phe Val Leu
      275      280      285
Val Glu Gln Phe Phe Met Leu Lys Ala Gly Gln Phe Leu Gln Thr Gln
      290      295      300
Ile Gln Asn Arg Leu Gly Leu Leu Phe Ser Gln Val Val Leu Thr Val
      305      310      315      320
Thr His Ala Glu Phe Arg Leu Gln Pro Leu Arg Thr Arg Ser Val Ile
      325      330      335
Ala Gly Thr Phe Gln His Arg Arg His Val Ala Gln Ile Pro
      340      345      350

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<210> 9802

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 9802

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Thr Arg Asn Gln Arg Arg Leu Arg Phe Cys Trp Arg Arg Arg Thr Ala
1      5      10      15
Asp Gln Leu Asp Asp Arg Val Asp Val Arg Gln Arg Asn Gly Gln Cys
      20      25      30
Phe Lys Asp Met Gly Thr Val Ala Arg Phe Ala Gln Phe Glu Asp Gly
      35      40      45
Thr Ala Ser His His Phe Thr Ala Val Thr His Glu Arg Ala Gln Asp
      50      55      60
Leu Phe Gln Val His Asp Leu Arg Leu Ala Met Val Gln Arg Asn His
      65      70      75      80
Val Asp Thr Glu Gly Asp Leu Lys Leu Ser Leu Gly Val Lys Val Val
      85      90      95
Gln His Asn Phe Thr His Arg Val Ala Leu Asp Phe Asn His Asp Ala
      100      105      110
His Thr Val Phe Val Arg Leu Val Thr Gln Arg Ala Asp Ala Phe Asn
      115      120      125
Ala Phe Phe Phe Tyr Gln Leu Gly Asp Phe Phe Asn Gln Ser Arg Phe
      130      135      140
Val His Leu Ile Arg Asp Leu Val Asn Asn Asn Gly Phe Thr Ala Gly
      145      150      155      160
Phe Gly Val Arg Phe His Phe Gly Ala Gly Thr Asp Val Asn Leu Ala
      165      170      175

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Ala Thr Gly Thr Val Arg Phe Phe Asn Thr Ala Thr Ala Ile Asp Asp
 180 185 190
 Cys Arg Arg Arg Glu Val Arg Ala Arg Asp Val Phe His Gln Pro Phe
 195 200 205
 Asn Ala Asp Val Phe Ile Val Asn Val Gly Gln Ala Ala Val Asp His
 210 215 220
 Phe Arg Asp Ile Val Arg Arg Asn Val Gly Cys His Thr Asp Gly Asp
 225 230 235 240
 Thr Gly Arg Thr Val His Gln Gln Val Trp Asp Leu Arg Trp His Asp
 245 250 255
 Val Arg Asn Phe Phe Arg Ala Val Val Val Ile Asn Glu Ile Asn Arg
 260 265 270
 Leu Phe Phe Gln Val Ser His Gln Leu Met Gly Asn Leu Arg Gln Thr
 275 280 285
 Asp Phe Arg Ile Thr His Cys Arg Gly Gly Val Ala Val Asp Arg Thr
 290 295 300
 Lys Val Thr Leu Thr Ile Tyr Gln His Val Thr Gln Arg Glu Gly Leu
 305 310 315 320
 Arg His Thr Asp Asn Gly Ala Val His Arg Asp Ile Thr Met Arg Met
 325 330 335
 Val Phe Thr Asp Tyr Val Thr Asn Asp Thr Gly Arg Phe Phe Val Gly
 340 345 350
 Phe Ile Pro Val Ile Ala Gln Tyr Val His Gly Val 365
 355 360

<210> 9803

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9803

Ser Gln His Arg Arg Pro Glu Arg Leu Pro Ala Leu Met Thr Arg Val
 1 5 10 15
 Thr Leu Ser Leu Ser Gly Thr Glu Val Leu Cys Gln Glu Glu His Pro
 20 25 30
 Ser Leu Leu Val Ala Leu Glu Ala His Gln Val Glu Val Glu Tyr Gln
 35 40 45
 Cys Arg Glu Gly Tyr Cys Gly Ser Cys Arg Cys Arg Leu Val Ala Gly
 50 55 60
 Gln Val Asp Trp Leu Thr Glu Pro Leu Ala Phe Ile Ser Glu Gly Glu
 65 70 75 80
 Ile Leu Pro Cys Cys Cys Arg Ala Lys Gly Asp Ile Glu Ile Glu Met
 85 90 95

<210> 9804

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 9804

Thr Ser Ala Gly Lys Ala Phe Ser Pro Ser Pro Gly Ala Met Pro Cys
 1 5 10 15
 Ala Lys Ala Asn Leu Pro Ala Gly Ser Ile Arg Gly Phe Ala Val Trp
 20 25 30
 Arg Arg Ser Thr Thr Met Lys Phe Asp Thr Val Ile Val Gly Gly Gly
 35 40 45
 Leu Ala Gly Leu Leu Cys Gly Leu Lys Leu Thr Gln Arg Gly Leu Arg
 50 55 60
 Cys Ala Ile Val Thr Arg Gly Gln Ser Ala Leu His Phe Ser Ser Gly

65					70				75				80
Ser	Leu	Asp	Leu	Leu	Gly	Ala	Leu	Ser	Phe	Ala	Asp	Leu	Pro
				85					90				Pro
His	Pro	Tyr	Arg	Leu	Thr	Gly	Ala	Glu	Asn	Met	Ala	Arg	Phe
			100					105					Ala
Glu	Thr	Glu	His	Leu	Leu	Thr	Ala	Cys	Gly	Ala	Arg	Met	Gln
		115					120					125	Gly
Ala	Glu	Gln	Asn	His	Gln	Arg	Val	Thr	Pro	Leu	Gly	Thr	Leu
		130				135					140		Arg
Ala	Trp	Leu	Ser	Pro	Glu	Glu	Val	Pro	Val	Ala	Pro	Ile	Ala
145					150					155			Ala
Arg	Val	Arg	Val	Val	Gly	Ile	Ser	Gly	Phe	Leu	Asp	Phe	Gln
				165					170				Pro
Leu	Ala	Ala	Ala	Ser	Leu	Arg	Gln	Gln	Gly	Val	Gln	Val	Asp
			180					185					Thr
Glu	Ile	Asp	Leu	Pro	Glu	Leu	Asp	Val	Leu	Arg	Glu	Asn	Pro
		195					200					205	Ser
Phe	Arg	Ala	Val	Asn	Ile	Ala	Arg	Leu	Leu	Asp	Asn	Glu	Ser
		210				215					220		Tyr
Pro	Gln	Leu	Tyr	Ala	Ala	Leu	Gln	Pro	Leu	Gly	Glu	Thr	Cys
225					230					235			Asp
Leu	Phe	Met	Pro	Ala	Cys	Phe	Gly	Leu	Thr	Asp	Asn	Arg	Leu
				245					250				Trp
Trp	Leu	Ser	Ala	Arg	Leu	Pro	Cys	Thr	Leu	Gly	Leu	Leu	Pro
			260					265					Thr
Pro	Pro	Ser	Val	Pro	Gly	Ile	Arg	Leu	His	Thr	Gln	Leu	Gln
		275					280					285	Arg
Phe	Val	Ala	Gln	Gly	Gly	Val	Trp	Met	Ala	Gly	Asp	Glu	Val
		290				295				300			Lys
Ile	Thr	Leu	Val	Glu	Gly	Ala	Val	Ser	Asp	Ile	Trp	Thr	Arg
305					310					315			Asn
Gly	Asp	Ile	Pro	Leu	Arg	Ala	Arg	Tyr	Thr	Val	Leu	Ala	Ser
				325					330				Gly
Phe	Phe	Ser	Asn	Gly	Leu	Leu	Ser	Ser	Arg	Asp	Gly	Val	Arg
			340					345					Glu
Ile	Leu	Gly	Leu	Asp	Val	Arg	Gln	Ser	Ala	Ser	Arg	Ala	Asp
		355					360					365	Trp
Gln	Ser	Asp	Phe	Phe	Thr	Pro	Gln	Pro	Trp	Gln	Gln	Phe	Gly
		370				375							Val
Val	Asp	Ser	Gln	Leu	Arg	Pro	Arg	Leu	Gly	Gly	Glu	Pro	Val
385					390					395			Glu
Leu	Tyr	Ala	Ile	Gly	Ser	Val	Leu	Gly	Gly	Tyr	Asp	Pro	Val
				405					410				Ala
Gly	Cys	Gly	Gly	Gly	Val	Cys	Ala	Val	Thr	Ala	Leu	His	Val
			420					425					Ala
Gln	Ile	Ile	Gln	Arg	Arg	Glu	Arg	Ala	Gln				Glu
		435					440						

<210> 9805

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9805

Thr	Met	Lys	Lys	Gln	Leu	Leu	Ser	Thr	Leu	Ala	Ala	Ser	Val	Leu	Leu
1				5					10					15	
Leu	Ser	Ala	Ser	Val	Val	Gln	Ala	Gln	Asp	Ala	Pro	Ser	Arg	Thr	Glu
			20					25					30		
Cys	Ile	Ala	Pro	Ala	Lys	Pro	Gly	Gly	Gly	Phe	Asp	Leu	Thr	Cys	Lys
		35					40				45				
Leu	Ile	Gln	Val	Ser	Leu	Leu	Glu	Thr	Lys	Ala	Ile	Glu	Lys	Pro	Met

50	55	60
Arg Val Thr Tyr Met Pro Gly Gly Val Gly Ala Val Ala Tyr Asn Ala		
65	70	75
Ile Val Ala Gln Arg Pro Ala Glu Ala Gly Thr Val Val Ala Phe Ser		80
	85	90
Gly Gly Ser Leu Leu Asn Leu Ser Gln Gly Lys Phe Gly Arg Tyr Asp		95
	100	105
Val Asn Asp Val Arg Trp Leu Ala Thr Val Gly Thr Asp Tyr Gly Met		110
	115	120
Ile Ala Val Arg Ala Asp Ser Pro Trp Lys Ser Leu Lys Asp Leu Leu		125
	130	135
Thr Ala Met Glu Lys Asp Pro Asn Ser Val Val Ile Gly Ala Gly Ala		140
145	150	155
Ser Ile Gly Ser Gln Asp Trp Met Lys Ala Ala Leu Leu Ala Gln Gln		160
	165	170
Ala Lys Val Asp Pro His Lys Met Arg Tyr Val Ala Phe Glu Gly Gly		175
	180	185
Gly Glu Pro Val Thr Ala Leu Met Gly Asn His Val Gln Ala Val Ser		190
	195	200
Gly Asp Leu Ser Glu Met Val Pro Tyr Leu Ser Gly Asp Lys Ile Arg		205
	210	215
Val Leu Ala Val Phe Ser Glu Asn Arg Leu Pro Gly Gln Leu Ala Asp		220
225	230	235
Val Pro Thr Ala Lys Glu Gln Gly Tyr Asn Leu Val Trp Pro Ile Ile		240
	245	250
Arg Gly Phe Phe Val Gly Pro Lys Val Thr Asp Ala Glu Tyr Gln Trp		255
	260	265
Trp Val Asp Thr Phe Ala Lys Leu Gln Gln Thr Glu Glu Phe Lys Lys		270
	275	280
Gln Arg Asp Leu Arg Gly Leu Phe Glu Phe Asn Leu Asn Gly Lys Gln		285
	290	295
Leu Asp Glu Tyr Val Lys Lys Gln Val Asn Asp Tyr Arg Val Gln Ala		300
305	310	315
Lys Ala Phe Gly Leu Ala Lys		320
	325	

<210> 9806

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9806

Arg Tyr Gln Asp Ser Arg Gln Arg Arg Lys Gly Arg Val Lys Lys Val	
1	5
Ser Glu Val Leu His Trp Thr Pro Asp His Ala Glu His Lys Gly Lys	
	20
Met Met Lys Ser Asp Tyr Ala Lys Gln Ile Glu Leu Ile Ser Gly Pro	
	35
Leu Glu Ala Ala Met Glu Ala Leu Ala Gly Thr Leu Ser Ala Asn Gln	
	50
Glu Ile Val Leu His Asn Leu Thr Thr Pro Glu Gln Ser Val Val Lys	
65	70
Ile Ile Asn Gly His Val Ser Gly Arg Lys Ala Gly Asp Asn Leu Leu	
	85
Ser Gly Pro Glu Lys Asp Lys Gly Phe Ala Leu Leu Leu Lys Asn Asn	
	100
Lys Asp Ser Thr Pro Val Thr Val Lys Asn Tyr Lys Thr Thr Thr Ala	
	115
Ser Gly Arg Ile Leu Asn Ser Ala Ser Thr Ile Tyr Tyr Ser Glu Glu	
	130
Gly Val Pro Leu Met Ala Phe Cys Ile Asn Ile Asp Thr Ser Pro Tyr	

145					150					155				160	
Glu	Gln	Met	Arg	Lys	Cys	Leu	Asp	Ala	Ile	Thr	Gly	Ser	Pro	Leu	Ala
				165					170					175	
Asp	Ser	Asp	Pro	Gln	Asp	Met	Asn	Leu	Gly	Gly	Ile	Ile	Glu	Gln	Ser
			180					185					190		
Ile	Gln	Glu	Ile	Ile	Asp	Lys	His	Ser	Val	Pro	Gly	Lys	Lys	Val	Gln
		195				200						205			
Lys	Ala	Gln	Arg	Leu	Lys	Ile	Val	Ala	Glu	Met	His	Ala	Lys	Gly	Ile
	210					215					220				
Phe	Lys	Met	Arg	Gly	Gly	Val	Gln	His	Ala	Ala	Gln	Ala	Leu	Gly	Val
225				230					235						240
Thr	Arg	Tyr	Thr	Val	Tyr	Asn	Asp	Leu	Glu	Val	Met	Gly	Glu	Lys	
				245					250					255	

<210> 9807

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 9807

Asp	Leu	Leu	Met	Thr	Leu	Thr	Lys	Ser	Phe	Ala	Ala	Leu	Met	Val	Ala
1				5					10					15	
Val	Ser	Ile	Glu	Val	Ile	Ala	Thr	Thr	Leu	Leu	Ser	Leu	Ser	Asn	Ser
			20					25					30		
Phe	Gln	Arg	Pro	Val	Val	Gly	Leu	Ser	Ala	Ile	Ile	Ser	Tyr	Gly	Leu
		35				40						45			
Ser	Tyr	Tyr	Phe	Leu	Ser	Ile	Ala	Leu	Arg	Arg	Ile	His	Leu	Gly	Val
	50					55					60				
Ala	Tyr	Ala	Ile	Trp	Ser	Ala	Val	Gly	Leu	Phe	Ser	Met	Thr	Val	Ile
65				70					75						80
Gln	Thr	Arg	Phe	Phe	Asp	Tyr	Ile	Val	Ser	Gln	Arg	Ala	Trp	Met	Gly
			85					90						95	
Leu	Gly	Met	Val	Ile	Ala	Gly	Thr	Ile	Thr	Leu	Asn	Leu	Ala	Ile	Lys
			100					105					110		
Gln	Asn	Lys													
		115													

<210> 9808

<211> 821

<212> PRT

<213> Enterobacter cloacae

<400> 9808

Lys	Ala	Ala	Phe	Trp	Lys	Arg	Ser	Glu	Leu	Ala	Ala	Ser	Ser	Pro	Gly
1				5					10					15	
Trp	Arg	Ser	Ser	Pro	Phe	Asn	Arg	Arg	Asn	Gly	Met	Thr	Thr	Glu	Met
		20						25					30		
Leu	Ser	Leu	Arg	Val	Val	Gln	Leu	Arg	Glu	Ala	Tyr	Leu	Gln	Ala	Lys
		35					40					45			
Pro	Phe	Val	Ser	Ala	His	Arg	Ala	Val	Ser	Val	Thr	Gln	Val	Tyr	Lys
	50					55					60				
Asp	Asn	Pro	Gly	Met	Asn	Asn	Ser	Leu	Leu	Arg	Ala	Leu	Ala	Phe	Arg
65				70					75						80
Arg	Ala	Cys	Glu	Thr	Ala	Pro	Leu	His	Val	Ala	Gln	Asn	Glu	Leu	Ile
			85					90						95	
Val	Ser	His	Pro	Ala	Gly	Gly	Ala	Arg	Gly	Gly	Glu	Val	Ser	Pro	Glu
			100					105					110		
Ile	Ser	Trp	Arg	Trp	Leu	Ala	Asp	Glu	Leu	Glu	Thr	Leu	Pro	Ala	Arg
		115					120					125			
Ala	Gln	Asp	Pro	Tyr	Gln	Ile	Asp	Glu	Glu	Thr	Lys	Arg	Leu	Leu	Arg
	130					135						140			

Glu	Glu	Val	Phe	Pro	Tyr	Trp	Gln	Gly	Arg	Ser	Leu	Asp	Glu	Met	Ala
145					150					155					160
Gln	Thr	Gln	Leu	Lys	Thr	His	Gly	Leu	Trp	His	Trp	Cys	His	Asp	Asp
				165					170						175
Gly	Ile	Cys	Asp	Val	Thr	Ile	Lys	Thr	Gln	Asn	Gly	Gly	Gly	Asp	Ser
			180					185					190		
Cys	Pro	Gly	Tyr	Asp	Asn	Ile	Leu	Leu	Thr	Lys	Gly	Ile	Lys	Gly	Ile
		195					200					205			
Arg	Glu	Glu	Ala	Ala	Ala	Leu	Leu	Leu	Ala	Leu	Asp	Pro	Ala	Thr	Pro
	210					215					220				
Glu	Gly	Cys	Asp	Ala	Phe	Asn	Phe	Tyr	Thr	Ala	Met	Leu	His	Thr	Cys
225					230					235					240
Asp	Gly	Val	Val	Thr	Tyr	Ala	Arg	Arg	Tyr	Ala	His	Tyr	Leu	Asn	Ala
				245					250						255
Leu	Ala	Glu	Lys	Glu	Gly	Asp	Pro	Leu	Arg	Arg	Asp	Glu	Leu	Leu	Gln
			260					265					270		
Leu	Ser	Gly	Ile	Cys	Ser	Arg	Val	Pro	Glu	Gln	Pro	Pro	Gln	His	Phe
		275					280					285			
His	Asp	Ala	Leu	Gln	Ala	Ile	Trp	Phe	Val	His	Ser	Leu	Phe	Met	Leu
	290					295					300				
Glu	Glu	Asn	Gln	Thr	Gly	Ile	Ser	Leu	Gly	Arg	Val	Asp	Gln	Tyr	Leu
305					310					315					320
Trp	Pro	Leu	Leu	Glu	Arg	Asp	Leu	His	Asp	Gly	Thr	Leu	Asn	Leu	Gln
				325					330						335
Gln	Ala	Glu	Glu	Leu	Leu	Cys	Cys	Trp	Leu	Ile	Lys	Met	Ala	Glu	Thr
			340					345					350		
Leu	Trp	Ile	Cys	Ser	Glu	Ser	Thr	Ala	Met	Tyr	Phe	Ala	Gly	Tyr	Gln
		355					360					365			
Pro	Phe	Ile	Asn	Leu	Val	Val	Gly	Gly	Gln	Lys	Arg	Glu	Gly	Gly	Asp
	370					375					380				
Ala	Thr	Asn	Pro	Leu	Thr	Leu	Met	Ile	Met	Asp	Cys	Ser	Ala	Arg	Leu
					390					395					400
Lys	Ile	Tyr	Gln	Pro	Gly	Leu	Ala	Val	Arg	Ile	His	Asn	Gln	Ser	Pro
				405					410						415
Gln	Pro	Phe	Met	Arg	Lys	Val	Val	Asp	Val	Val	Arg	Ser	Gly	Met	Gly
			420					425					430		
Phe	Pro	Ala	Cys	His	Phe	Asp	Asp	Ala	His	Ile	Arg	Met	Met	Leu	His
		435				440						445			
Lys	Gly	Phe	Ser	Tyr	Glu	Asp	Ala	Arg	Asp	Tyr	Cys	Leu	Met	Gly	Cys
	450					455					460				
Val	Glu	Pro	Gln	Lys	Ser	Gly	Lys	Met	Tyr	Gln	Trp	Thr	Ser	Val	Gly
465					470					475					480
Tyr	Thr	Thr	Phe	Thr	Ala	Ala	Ile	Glu	Leu	Ala	Leu	His	Asn	Gly	Arg
				485					490						495
Thr	Gln	Asn	Gly	Lys	Gln	Cys	Gly	Pro	Ala	Thr	Gly	Asp	Val	Ser	Gln
			500					505					510		
Phe	Ser	Arg	Tyr	Glu	Glu	Val	Glu	Ser	Ala	Val	Arg	Thr	Gln	Leu	Ser
		515					520					525			
Ala	Ile	Val	Arg	Lys	Ala	Ala	Glu	Ala	Thr	Leu	Ile	Val	Gln	Lys	Leu
					535						540				
His	Ala	Glu	His	Ala	Arg	Lys	Pro	Leu	Met	Ser	Cys	Leu	Ile	Glu	Gly
545					550					555					560
Cys	Ile	Ala	Thr	Ala	Lys	Asp	Val	Thr	Gln	Gly	Gly	Ala	Arg	Leu	Asn
				565					570						575
Ala	Gly	Pro	Gly	Leu	Ile	Trp	Thr	Gly	Leu	Ala	Asp	Cys	Val	Asn	Ser
			580					585					590		
Leu	Met	Ala	Ile	Arg	Thr	Leu	Val	Phe	Asp	Thr	Ala	Arg	Phe	Thr	Leu
		595					600					605			
Arg	Gln	Leu	Val	Glu	Ala	Leu	Glu	His	Asn	Phe	Val	Gly	Tyr	Gln	Glu
	610					615					620				
Ile	Leu	Thr	Ala	Cys	Gln	Arg	Ala	Pro	Lys	Tyr	Gly	Asn	Asp	Ile	Arg

625					630					635				640	
Glu	Val	Asp	Asp	Ile	Ala	Arg	Glu	Leu	Val	Arg	Phe	Leu	Glu	Gln	Glu
				645					650					655	
His	Arg	Gln	Tyr	Arg	Met	Leu	Tyr	Ala	Pro	Phe	Ala	Phe	Gly	Thr	Leu
			660					665					670		
Ser	Ile	Ser	Asn	Asn	Thr	Pro	Phe	Gly	Leu	Ile	Thr	Gly	Ala	Leu	Pro
		675					680					685			
Ser	Gly	Arg	Leu	Ala	Gly	Lys	Pro	Leu	Ala	Asp	Gly	Ile	Ser	Pro	Ala
	690					695				700					
Gln	Gln	Thr	Asp	Tyr	Leu	Gly	Pro	Thr	Ala	Ile	Ile	Asn	Ser	Val	Ser
705					710					715					720
Arg	Ile	Asn	Val	Glu	Glu	Met	Asp	Ile	Gly	Met	Val	His	Asn	Ile	Lys
				725					730					735	
Leu	Met	Phe	Gly	Met	Leu	Glu	Thr	Pro	Glu	Gly	Gln	Asn	Ser	Leu	Ile
			740					745					750		
His	Leu	Leu	Arg	Thr	Ala	Ser	Ile	Leu	Gly	Asn	Ala	Gln	Leu	Gln	Phe
		755					760					765			
Ser	Tyr	Val	Asp	Asp	Glu	Thr	Leu	Arg	Lys	Ala	Gln	Lys	His	Pro	Ala
	770					775					780				
Asp	Tyr	Arg	Asn	Leu	Met	Ile	Arg	Val	Ala	Gly	Tyr	Ser	Ala	Phe	Phe
785					790					795					800
Val	Glu	Leu	Ser	Lys	Glu	Val	Gln	Asp	Glu	Ile	Ile	Ser	Arg	Thr	Thr
				805					810					815	
Gln	Arg	His	Phe												
			820												

<210> 9809

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 9809

Gly	Ile	Gly	Ile	Lys	Met	Lys	Lys	Leu	Val	Ala	Val	Ile	Ser	Leu	Ala
1				5				10						15	
Phe	Val	Thr	Leu	Thr	Val	Ala	Gly	Cys	Ser	Ser	Asp	Tyr	Val	Leu	Gln
			20					25					30		
Lys	Lys	Asn	Gly	Glu	Met	Ile	Ile	Thr	His	Gly	Lys	Pro	Glu	Val	Asp
		35					40					45			
Asp	Asp	Asn	Gly	Leu	Ile	Thr	Glu	Asp	Val	Ala	Gly	Asn	Glu	His	
	50					55				60					
Ala	Ile	Asn	Arg	Asp	Gln	Ile	Ile	Gln	Met	Ile	Glu	Lys			
65					70					75					

<210> 9810

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 9810

Arg	Glu	Gly	Val	Ser	Ala	Gly	Ala	Glu	Arg	Gly	Tyr	Gly	Leu	Val	Arg
1				5				10						15	
Ser	Arg	Tyr	Glu	Val	Ala	Phe	Pro	Pro	Ser	Pro	Ser	Pro	Val	Gly	Glu
			20					25					30		
Gly	Val	Val	Arg	Ala	Tyr	Phe	Gln	Asp	Asn	Asp	Phe	Pro	Met	Pro	His
		35					40					45			
Leu	Ser	Thr	Arg	Val	Leu	Gln	Gly	Leu	Leu	Thr	Leu	Leu	Leu	Thr	Leu
	50					55					60				
Phe	Gly	Leu	Leu	Leu	Val	Thr	Phe	Ala	Leu	Ser	Ala	Phe	Ser	Pro	Val
65					70					75					80
Asp	Arg	Val	Leu	Gln	Ile	Val	Gly	Asp	His	Ala	Ser	Gln	Ser	Thr	Tyr
				85					90					95	

Asp Gln Val Arg His Gln Leu Gly Leu Asp Arg Pro Leu Pro Val Gln
 100 105 110
 Phe Trp His Tyr Leu Gln Asn Leu Ala His Gly Asp Leu Gly Thr Ala
 115 120 125
 Ser Ala Thr Gly Gln Pro Val Leu Gln Asp Leu Leu His Ala Phe Pro
 130 135 140
 Ala Thr Leu Glu Leu Ala Thr Leu Ala Leu Ile Ile Gly Thr Val Leu
 145 150 155 160
 Gly Val Ile Ala Gly Val Leu Cys Ala Arg Tyr Ala Gly Ser Pro Leu
 165 170 175
 Asp Leu Ala Ile Arg Thr Leu Thr Leu Leu Gly Asn Ser Val Pro Ile
 180 185 190
 Phe Trp Leu Gly Leu Leu Met Leu Ala Leu Phe Tyr Ala Lys Leu Gln
 195 200 205
 Trp Ser Ala Gly Pro Gly Arg Leu Asp Asp Ile Trp Gln Phe Thr Val
 210 215 220
 Glu Pro Arg Thr Gly Phe Ala Leu Val Asp Thr Trp Leu Ser Gly Asp
 225 230 235 240
 Arg Glu Ala Phe Arg Asn Ala Ile Ser His Leu Val Leu Pro Val Leu
 245 250 255
 Leu Leu Ala Tyr Tyr Ser Leu Ala Ser Ile Thr Arg Leu Thr Arg Ser
 260 265 270
 Ala Cys Leu Ser Glu Met Asn Lys Glu Tyr Ile Leu Leu Ala Arg Ala
 275 280 285
 Lys Gly Ala Gly Glu Met Thr Ile Leu Leu Arg His Val Leu Pro Asn
 290 295 300
 Ile Arg Ser Thr Leu Leu Thr Val Ile Ala Leu Ala Tyr Thr Ser Met
 305 310 315 320
 Leu Glu Gly Ala Val Leu Thr Glu Thr Val Phe Ser Trp Pro Gly Ile
 325 330 335
 Gly Arg Tyr Leu Thr Thr Ala Leu Phe Ala Gly Asp Thr Thr Ala Val
 340 345 350
 Met Gly Gly Thr Leu Leu Ile Gly Val Cys Phe Val Leu Ile Asn Asn
 355 360 365
 Leu Thr Asp Leu Leu Val Arg Ala Thr Asp Pro Arg Val Arg
 370 375 380

<210> 9811

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 9811

Leu Pro Thr Ala Cys Arg Ser Phe Leu Thr Ser Gly Gly Leu Pro Pro
 1 5 10 15
 Phe Gln Ala Gly Arg Phe Cys Leu Pro Ala Trp Pro Leu Thr Cys Trp
 20 25 30
 Ala Met Ala Cys Ala Thr Tyr Trp Ser His Ser Met Thr Glu His Arg
 35 40 45
 Val Ile Val Asp Ala Leu Asn Ile Asp Tyr Pro Ala Ala Arg Val Val
 50 55 60
 Asn Asn Leu Ser Phe Thr Leu Gly Lys Glu Arg Leu Ala Leu Val Gly
 65 70 75 80
 Glu Ser Gly Ser Gly Lys Ser Met Ser Ala Arg Ala Leu Met Gly Leu
 85 90 95
 Val Arg Lys Pro Gly Ile Val Ser Ala Lys Arg Leu Asn Val Leu Gly
 100 105 110
 Asn Asp Leu Leu Thr Leu Asn Ser Arg Arg Trp Gln Ala Leu Arg Gly
 115 120 125
 Asn Gly Ile Ala Met Val Leu Gln Asp Pro Arg Tyr Ala Leu Asn Pro
 130 135 140

Val	Lys	Thr	Val	Ala	Ala	Gln	Leu	Asp	Glu	Ala	Leu	Thr	Leu	His	Gln
145				150						155					160
Arg	Leu	Pro	Arg	Ala	Glu	Arg	Leu	Ala	Arg	Ile	His	Asp	Ile	Ile	Arg
				165					170						175
Ala	Val	Gly	Leu	Asn	Glu	His	Val	Leu	Gln	Arg	Tyr	Pro	Gly	Glu	Leu
			180					185					190		
Ser	Gly	Gly	Met	Gly	Gln	Arg	Val	Met	Ile	Ala	Ile	Ala	Leu	Val	Asn
	195						200					205			
Asn	Pro	Gln	Val	Leu	Ile	Ala	Asp	Glu	Pro	Thr	Ser	Ala	Leu	Asp	Ala
	210					215					220				
Arg	Leu	Arg	Asn	Gln	Ile	Leu	Glu	Leu	Leu	Val	Gln	Gln	Cys	Glu	Ala
	225				230					235					240
Arg	Gln	Met	Ala	Met	Leu	Leu	Ile	Ser	His	Asp	Leu	Pro	Leu	Val	Ala
				245					250						255
Glu	His	Cys	Asp	Arg	Val	Leu	Val	Met	Tyr	Gln	Gly	Glu	Asn	Val	Asp
			260					265					270		
Glu	Met	Ala	Ala	Ser	Gln	Leu	Pro	Gln	Ala	Thr	His	Pro	Tyr	Thr	Arg
		275					280					285			
Thr	Leu	Trp	Thr	Cys	Arg	Pro	Asn	Ala	Gly	Thr	Phe	Gly	Lys	Met	Leu
	290					295					300				
Pro	Thr	Leu	Asp	Arg	Ser	Gln	Pro	Trp	Lys	Glu	Asp	Asp	Asn	Gly	Thr
	305				310					315					320
Arg															

<210> 9812

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 9812

Asp	Val	Phe	Asp	Met	Glu	Leu	Arg	Tyr	Leu	Arg	Tyr	Phe	Val	Ala	Val
1				5					10					15	
Ala	Arg	Glu	Arg	His	Phe	Thr	Arg	Ala	Ala	Lys	Ala	Leu	Gly	Ile	Ser
			20					25					30		
Gln	Pro	Pro	Leu	Ser	Gln	Gln	Ile	Lys	Arg	Leu	Glu	Glu	Glu	Val	Gly
		35					40					45			
Thr	Pro	Leu	Phe	Arg	Arg	Leu	Thr	Arg	Gly	Val	Glu	Leu	Thr	Glu	Ala
	50					55					60				
Gly	Glu	Ala	Phe	Tyr	Glu	Asp	Ala	Cys	Lys	Ile	Leu	Ala	Leu	Ser	Asp
	65				70				75						80
Ala	Ala	Leu	Glu	Lys	Ala	Arg	Gly	Ile	Ala	Arg	Gly	Leu	Asn	Gly	Ser
				85					90					95	
Leu	Ser	Ile	Gly	Ile	Thr	Ser	Ser	Asp	Ala	Phe	His	Pro	Lys	Ile	Phe
			100					105					110		
Ala	Leu	Ile	Arg	Gln	Phe	Gln	Val	Gln	Asn	Met	Ala	Val	Gln	Val	His
	115						120					125			
Gln	Val	Glu	Ala	Asn	Met	Ser	Ser	Leu	Thr	Thr	Met	Leu	Ala	Glu	Gly
	130					135					140				
Glu	Leu	Asp	Ile	Ala	Phe	Val	Arg	Leu	Pro	Cys	Glu	Ser	Ser	Lys	Val
	145				150					155					160
Phe	Glu	Leu	Lys	Ile	Leu	Asp	Arg	Glu	Pro	Met	Met	Val	Ala	Leu	His
				165					170						175
Arg	Asp	His	Pro	Leu	Ala	Ala	Cys	Gly	Asp	Leu	Ala	Leu	Glu	Glu	Leu
			180					185					190		
Arg	Asp	Thr	Pro	Val	Val	Leu	Phe	Pro	Gln	Glu	Val	Ala	Pro	Gly	Leu
	195						200					205			
Tyr	Asp	Arg	Val	Tyr	Gly	Ser	Cys	Glu	Arg	Ala	Gly	Ile	Asp	Met	Gln
	210					215					220				
His	Thr	Leu	Gln	Ser	Ser	Gln	Leu	Ser	Ser	Ser	Leu	Ser	Met	Val	Ser
	225					230				235					240

Ala Gly Gly Gly Phe Ala Leu Val Pro Lys Ser Met Ala Ala Ile Ser
 245 250 255
 Pro Pro Asn Val Thr Tyr His Ala Leu Arg Ser Pro Glu Leu Tyr Thr
 260 265 270
 Asp Ile Ala Leu Cys Trp Arg Arg Phe Glu Arg Ser Arg Thr Val Lys
 275 280 285
 Arg Phe Leu Ala Met Met Ser Glu Gly
 290 295

<210> 9813

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9813

Ala Ser Ala Ser Ser Leu Ile Ser Ser Arg Leu Asn Ile Pro Ala Arg
 1 5 10 15
 Arg Leu Ala Ser Thr Ile Ser Pro Ala Thr Ala Phe Cys Ser Ser Leu
 20 25 30
 Arg Gln Ala Thr Val Gly Lys Ser Ser Glu Ser Ser Thr Ala Gln Arg
 35 40 45
 Val Ser Arg Ser Ala Ser Thr Arg Cys Ala Cys Gly Thr Ser Gly
 50 55 60
 Ser Val Arg Arg Gly Leu Ala Arg Ser Gln Thr Glu Ala Ser Gly Ser
 65 70 75 80
 Arg Trp Ala Gly Asn Gln Thr Thr Glu Gly Ser Thr Val Ala Pro Leu
 85 90 95
 Thr Lys Gly Ala Ser Trp Ala Phe Cys Ser Thr Pro Phe Cys Ser Ala
 100 105 110
 Gln Thr Thr Val Phe Ser Ser His Arg Ala Arg Ser His Pro Ala Leu
 115 120 125
 Ser Ala Phe Cys Val Val Leu Thr Ala Lys Lys Thr Arg Ser Thr Gly
 130 135 140
 Arg Val Met Thr Leu Gly Ser Val Ser Thr Gly Pro Gly Thr Thr Ile
 145 150 155 160
 Ser Pro Ser Ser
 165

<210> 9814

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9814

Trp Val Lys Asn Asn Ser Ser Arg Arg Ile Pro Phe Tyr Gln Val Asp
 1 5 10 15
 Ala Phe Ser Asp Gly Pro Phe Thr Gly Asn Pro Ala Ala Val Cys Leu
 20 25 30
 Leu Asp Ala Trp Pro Glu Gln Lys Val Leu Gln Arg Ile Ala Thr Glu
 35 40 45
 Asn Asn Leu Ser Glu Thr Ala Phe Val Val Gln Gln Asp Gly Gly Phe
 50 55 60
 Ala Leu Arg Trp Phe Thr Pro Ala Val Glu Val Asp Leu Cys Gly His
 65 70 75 80
 Ala Thr Leu Ala Ala Ser Val Leu Leu Ser Arg Asp Asp Ala Cys
 85 90 95
 Glu Ser Val His Phe Phe Thr Arg Ser Gly Glu Leu Thr Val Thr Ser
 100 105 110
 His Gly Glu Gln Tyr Thr Leu Asp Phe Pro Gln Ala Ile Pro Ser Arg
 115 120 125
 Ile Thr Ala Pro Glu Gly Leu Phe Lys Ala Leu Gly Leu Glu Glu Asn

130	135	140
Ala Gly Glu Thr Trp Gln	Ala Ser Asp Leu Ile Val	Val Ile Asp Asp
145	150	155
Glu Asp Lys Leu Asp Ala	Leu Lys Pro Asp Phe Thr	Ala Leu Glu Arg
165	170	175
Phe Asn Thr Arg Gly Val	Val Val Thr Ala Ser	Ser Arg Thr Phe Asp
180	185	190
Phe Arg Ser Arg Trp Phe	Gly Pro Gln Val Gly	Val Asn Glu Asp Pro
195	200	205
Val Thr Gly Ser Ala His	Thr Phe Leu Ala Pro	Leu Trp Ser Gln Lys
210	215	220
Leu Ser Lys Lys Arg Leu	His Ala Gln Gln Gly	Gly Ser Arg Lys Gly
225	230	235
Glu Leu Ile Cys Leu Ile	Lys Asp Asn Gly Arg	Ile Glu Leu Leu Gly
245	250	255
Lys Ala Ser Leu Met Ile	Glu Gly Val Phe Ile	Leu
260	265	

<210> 9815

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 9815

Ala Lys Arg Cys Arg Met Arg	Leu Ser Ala Glu Arg Arg	Ser Gly Ile
1	5	10
Ser Glu Gln Ala Tyr Gly	Trp Ile Ser Asn Ile Gln	Arg Phe Ser Leu
20	25	30
His Asp Gly Pro Gly Ile	Arg Ser Ile Ile Phe Phe	Lys Gly Cys Gln
35	40	45
Met Arg Cys Ala Trp Cys	Ala Asn Pro Glu Gly Gln	Thr Ala Glu Arg
50	55	60
Asp Val Phe Phe His Ala	Asp Arg Cys Leu His Cys	Gly Asn Cys Ala
65	70	75
Asp Leu Cys Pro Thr Gly	Leu His Ser Met Asn	His Asn Val His Val
85	90	95
Leu Glu Arg Asp Arg Lys	Cys Val Gly Cys Gln	Leu Cys Glu Glu Arg
100	105	110
Cys Pro Ala Ala Ala Leu	Asn Ile Val Gly Glu	His Val Ser Ala Gln
115	120	125
Asn Ala Phe Glu Arg Val	Met Ala Asp Glu Ile	Trp Phe Arg Gln Ser
130	135	140
Gly Gly Gly Val Thr Leu	Ser Gly Gly Glu Val	Ala Met Gln Pro Glu
145	150	155
Phe Ala Arg Val Leu Ile	Glu Gln Leu Lys Ala	Glu Asp Ile His Thr
165	170	175
Ala Ile Glu Thr Ala Gly	Tyr Ala Ser Trp His	Ala Ile His Gln Ala
180	185	190
Thr Ala Gly Cys Asp Leu	Ile Leu Tyr Asp Leu	Lys Ser Ala Glu Asp
195	200	205
Val Leu His Thr Arg Phe	Thr Gly Val Ser Asn	Lys Arg Ile Val Arg
210	215	220
Asn Leu Ala Arg Leu Leu	Gln Gly Gly Gln Gln	Ile Ile Ile Arg Ile
225	230	235
Pro Val Ile Pro His Phe	Asn Asp Ala Pro Asp	Gln Ala Asp Lys Leu
245	250	255
Leu Ala Leu Ile Ser Ala	Leu Thr Gln Gly Lys	Lys Asn Phe Gln Gly
260	265	270
Val Glu Leu Leu Pro Tyr	His Leu Phe Gly Thr	Gly Lys Tyr Lys Leu
275	280	285
Leu Asn Met Glu Tyr Asp	Trp Asn Arg Gly Ser	Ala Asn Val Asp Asn

290 295 300
 Phe Leu Ser Met Ala His His Tyr Arg Leu Pro Leu Lys Val Ser Gly
 305 310 315 320
 Thr Leu Ala Gly
 325

<210> 9816

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 9816

Asn Asn His Asn Ile Phe Ser Ser Gly Ile Ala Met Thr Lys Lys Leu
 1 5 10 15
 Leu Pro Leu Leu Val Leu Ala Ala Leu Ser Ser Ala Ala His Ala Ala
 20 25 30
 Thr Pro Pro Asn Thr Leu Val Val Ala Gln Gly Leu Asp Asp Ile Val
 35 40 45
 Ser Leu Asp Pro Ala Glu Ala Asn Glu Leu Ser Ser Ile Gln Thr Val
 50 55 60
 Pro Ser Leu Tyr Gln Arg Leu Val Gln Pro Asp Arg Asp Asn Pro Glu
 65 70 75 80
 Lys Ile Thr Pro Val Leu Ala Glu Ser Trp Asp Ala Asp Ala Ala Ala
 85 90 95
 Lys Thr Leu Thr Ile Lys Leu Lys Pro Asp Ala Lys Phe Ser Ser Gly
 100 105 110
 Asn Pro Leu Arg Pro Glu Asp Val Ile Phe Ser Tyr Thr Arg Ala Val
 115 120 125
 Thr Leu Asn Lys Ser Pro Ala Phe Ile Leu Asn Val Leu Gly Trp Asp
 130 135 140
 Ala Ser Asn Ile Ala Ser Gln Leu Lys Lys Val Asp Asp His Thr Leu
 145 150 155 160
 Thr Leu His Trp Thr Ala Asp Val Ser Pro Ser Val Ala Leu Asn Ile
 165 170 175
 Leu Ser Thr Pro Ile Ala Ser Ile Val Asp Glu Lys Gln Val Ala Ala
 180 185 190
 Asn Val Lys Asp Asp Asp Phe Gly Asn Ala Trp Leu Lys Met His Ser
 195 200 205
 Ala Gly Ser Gly Ala Phe Lys Met Arg Val Tyr Gln Pro His Gln Ala
 210 215 220
 Ile Val Leu Glu Ala Asn Glu Ser Ala Pro Gly Gly Ala Pro Lys Leu
 225 230 235 240
 Lys Ser Ile Ile Ile Lys Asn Val Pro Asp Pro Ala Ser Arg Arg Leu
 245 250 255
 Leu Ile Gln Gln Gly Asp Ala Asp Val Ala Arg Asp Leu Gly Ala Asp
 260 265 270
 Gln Ile Ser Ala Leu Ser Gly Lys Pro Gly Val Lys Val Leu Ser Ile
 275 280 285
 Pro Ser Ala Glu Gln Asn Tyr Leu Val Phe Asn Thr Gly Asn Ser Ala
 290 295 300
 Asn Pro Leu Leu Asn Asn Pro Ala Phe Trp Glu Ala Ser Arg Trp Leu
 305 310 315 320
 Val Asp Tyr Glu Gly Ile Thr Lys Asp Leu Leu Lys Gly Gln Tyr Phe
 325 330 335
 Val His Gln Ser Phe Leu Pro Val Gly Leu Pro Gly Ala Leu Glu Asp
 340 345 350
 Asn Pro Phe Thr Phe Asp Pro Ala Lys Ala Lys Ala Ile Leu Ala Lys
 355 360 365
 Ala Gly Ile Lys Asp Ala His Phe Thr Leu Asp Val Glu Asn Lys Pro
 370 375 380
 Pro Phe Ile Thr Ile Ala Gln Ser Met Gln Ala Ser Phe Ala Gln Gly

385 390 395 400
 Gly Val Lys Val Asp Leu Leu Pro Ala Ala Gly Ser Gln Val Tyr Ala
 405 410 415
 Arg Val Arg Ala Lys Gln His Gln Ala Ala Ile Arg Leu Trp Ile Pro
 420 425 430
 Asp Tyr Phe Asp Ala His Ser Asn Ala Ser Ala Phe Ala Trp Asn Asp
 435 440 445
 Gly Lys Ser Ser Thr Val Ala Gly Leu Asn Gly Trp Lys Ile Pro Glu
 450 455 460
 Leu Asn Lys Ala Thr Leu Ala Ala Val Ala Glu Pro Asp Pro Ala Lys
 465 470 475 480
 Arg Leu Asp Leu Tyr Lys Lys Met Gln Glu Gln Leu Gln His Asn Ser
 485 490 495
 Pro Tyr Val Phe Val Asp Gln Gly Lys Thr Gln Ile Val Val Arg Asp
 500 505 510
 Asn Val Lys Gly Tyr Gln Gln Gly Leu Asn Ala Asp Met Val Trp Tyr
 515 520 525
 Asp Arg Val Met Lys
 530

<210> 9817

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9817

Cys Ile Arg Val Arg Thr Leu Met Lys Trp Arg Arg Ala Ser Cys Arg
 1 5 10 15
 Arg Gln Pro Ile Pro Thr Arg Ala Arg Ser Gly Pro Ala Ala Arg Thr
 20 25 30
 Pro Gly Arg Leu Ala Arg Cys Cys Arg Arg Ser Thr Val Arg Asn Arg
 35 40 45
 Gly Arg Arg Thr Thr Met Ala Leu Val Glu Val Asn Gln Leu Arg Val
 50 55 60
 Ser Phe Gly Glu Lys Thr Ala Val Ser Ala Ala Ser Phe Ala Ile Glu
 65 70 75 80
 Lys Gly Glu Thr Phe Ser Leu Ile Gly Glu Ser Gly Cys Gly Lys Ser
 85 90 95
 Thr Leu Leu Arg Val Leu Ala Gly Leu Leu Pro Glu Trp Asn Gly His
 100 105 110
 Ile Ser Val Leu Gly Glu Asn Leu Arg Pro Gly Arg Arg Phe Glu Gly
 115 120 125
 Ala Leu Arg Arg Asn Val Gln Met Val Phe Gln Asp Pro Trp Ala Ser
 130 135 140
 Leu His Pro Asn His Thr Ile Ala Arg Thr Leu Ser Glu Pro Leu Asn
 145 150 155 160
 Ile His Gly Glu Ser Gln Val Ala Glu Lys Val Ala Asp Ala Leu Gln
 165 170 175
 Gln Val Gly Leu Ala Ala Asp Ala Gly Arg Arg Tyr Pro His Gln Leu
 180 185 190
 Ser Gly Gly Gln Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Leu Leu
 195 200 205
 Arg Pro Gln Leu Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp Met
 210 215 220
 Ser Val Gln Ala Glu Ile Leu Asn Leu Leu Asn Arg Leu Lys Ala Gln
 225 230 235 240
 His Gly Met Thr Tyr Leu Leu Val Ser His Asp Ala Asp Val Ile Ala
 245 250 255
 His Met Ser Asp Arg Ala Ala Phe Met Ala His Gly Glu Ile Gln Arg
 260 265 270
 Val Phe Asp Arg Glu Ala Met Leu Arg Gly Glu His Arg Met Gly

275

280

285

<210> 9818

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 9818

Arg	Ser	Asp	Arg	Ile	Asp	Ser	Ile	Lys	Asp	Leu	His	Trp	Asp	Ile	Arg
1				5					10					15	
Pro	Ser	Pro	His	Ile	Ser	Thr	Met	Gln	Val	Arg	Ser	Thr	Asp	Lys	Pro
			20					25					30		
Leu	Thr	Leu	Asn	Asn	Ala	Ile	Asn	Ile	Ala	Trp	Leu	Ile	Gln	Ala	Thr
		35					40					45			
Ser	His	Trp	Leu	Leu	Thr	Thr	Arg	Pro	Tyr	Lys	His	Gln	Glu	Arg	Asp
	50					55					60				
Phe	Leu	Arg	Tyr	Leu	Phe	Thr	Val	Phe	Arg	Cys	Val	Ala	Thr	Asp	Arg
65					70					75					80
Trp	Ile	Phe	Arg	Arg	Ala	Val	Met	Arg	Phe						
				85					90						

<210> 9819

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9819

Thr	Ile	Arg	Ser	Phe	Gln	Asp	Phe	Leu	Lys	Trp	Ser	Phe	Lys	Gln	Met
1				5					10					15	
Ala	Ile	Pro	Ala	Tyr	Leu	Trp	Leu	Lys	Asp	Asp	Gly	Gly	Ala	Asp	Ile
			20					25					30		
Lys	Gly	Ser	Val	Asp	Ile	Tyr	Gly	Arg	Glu	Gly	Ser	Ile	Glu	Ile	Ile
		35					40					45			
Ala	Leu	Asn	His	Gly	Ile	Met	Gln	Pro	Thr	Asp	Lys	His	Asn	Gly	Lys
	50					55					60				
Ala	Thr	Ser	Leu	Arg	Ile	His	Ser	Pro	Tyr	Ser	Phe	Asp	Lys	Glu	Ile
65					70					75					80
Asp	Ala	Ser	Ser	Pro	Tyr	Leu	Tyr	Lys	Ala	Val	Ser	Thr	Gly	Gln	Lys
				85					90					95	
Leu	Lys	Ser	Ala	Glu	Ile	Lys	Phe	Tyr	Arg	Ile	Asn	Asp	Ala	Gly	Gln
			100					105					110		
Glu	Val	Glu	Tyr	Phe	Ser	Thr	Leu	Leu	Glu	Gly	Val	Lys	Ile	Ala	Ser
		115					120					125			
Val	Cys	Pro	Met	Met	Leu	Asp	Ile	Lys	Asp	Pro	Asp	Tyr	Glu	Lys	His
	130					135					140				
Asn	His	Leu	Glu	Leu	Val	Glu	Leu	Leu	Tyr	Glu	Lys	Ile	Thr	Trp	Arg
145					150					155					160
Tyr	Val	Asp	Gly	Asn	Ile	Met	His	Ser	Asp	Ser	Trp	Asn	Asp	Arg	Lys
				165					170					175	

Thr Ala

<210> 9820

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 9820

Gln	Val	Ser	Ala	Val	Met	Met	Ala	Phe	Thr	Val	Ile	Ser	Phe	Met	Val
1				5					10					15	
Arg	Val	Pro	Val	Leu	Ser	Glu	Gln	Thr	Thr	Val	Ile	Ala	Pro	Arg	Val

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<210> 9821
<211> 221
<212> PRT
<213> Enterobacter cloacae
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<400> 9821															
His 1	Ser	Ala	Leu	Gln 5	Arg	Ile	Lys	Ala	Arg 10	Val	Ser	Ile	Arg	Ala 15	Phe
Thr	Ile	Asp	Gly 20	Arg	Lys	Asn	Leu	Val 25	Ala	Arg	Pro	Lys	Ser 30	Glu	Asp
Lys	Lys	Gln 35	Ala	Leu	Leu	Glu	Ala 40	Ala	Thr	Ala	Ala	Phe 45	Ala	Gln	Ser
Gly	Ile 50	Ala	Ala	Ser	Thr	Ala 55	Leu	Ile	Ala	Arg	Asn 60	Ala	Gly	Val	Ala
Glu 65	Gly	Thr	Leu	Phe 70	Arg	Tyr	Phe	Ala	Thr	Lys 75	Asp	Asp	Leu	Leu	Asn 80
Ala	Leu	Tyr	Leu	His 85	Leu	Lys	Gln	Asp 90	Leu	Cys	Gln	Thr	Met	Leu 95	Ala
Asn	Leu	Asp	Arg 100	Thr	Ile	Thr	Glu	Pro 105	Lys	Glu	His	Thr	Arg	Asn	Ile
Trp	Asn	Ser 115	Tyr	Val	Asp	Trp	Gly 120	Ile	Arg	Asn	Pro	Leu 125	Ala	His	Ala
Pro	Ile 130	Arg	Gln	Ile	Gly	Val 135	Ser	Glu	Lys	Leu	Asn 140	Ala	Glu	Thr	Glu
Gln 145	Ala	Val	Lys	Asp 150	Met	Phe	Pro	Glu	Leu	His 155	Glu	Leu	Cys	Arg	Arg 160
Ser	Ile	Arg	Pro	Val 165	Phe	Met	Ser	Asp 170	Glu	Phe	Lys	Thr	Phe	Gly 175	Asp
Ala	Met	Phe	Leu 180	Ser	Leu	Ala	Glu	Thr 185	Met	Glu	Phe	Ala	Ala	Arg	
Asp	Pro	Ser	Arg	Ala	Val	Asp	Phe	Lys	Ala	Leu	Gly	Phe	Glu	Ala	Met

	195		200		205
Trp	Arg Gly Leu Ala Glu	Glu Asp Asn His Gly Gln			
	210	215		220	

<210> 9822

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9822

Arg	Asn	Gly	Val	Thr	Met	Asn	Thr	Ser	Val	Val	Ser	Pro	Gly	Arg	Ala
1			5						10					15	
Gly	Leu	Ile	Leu	Leu	Thr	Gly	Gln	Met	Leu	Pro	Leu	Ile	Asp	Thr	
			20				25					30			
Ser	Ile	Thr	Asn	Val	Ala	Leu	Asp	Ser	Ile	Thr	His	Ser	Leu	His	Ala
		35					40					45			
Thr	Ala	Thr	Glu	Leu	Glu	Leu	Ile	Val	Ala	Leu	Tyr	Gly	Val	Ala	Phe
	50				55						60				
Ala	Val	Cys	Leu	Ala	Pro	Gly	Ser	Lys	Leu	Gly	Asp	Asn	Leu	Gly	Arg
65					70					75					80
Arg	Arg	Leu	Phe	Met	Trp	Gly	Val	Ala	Cys	Phe	Gly	Leu	Ala	Ser	Leu
			85						90					95	
Leu	Cys	Gly	Met	Ala	Gly	Asn	Ile	Glu	Gln	Leu	Leu	Gly	Ala	Arg	Ile
			100					105					110		
Ile	Gln	Gly	Ala	Gly	Ala	Ala	Leu	Ile	Met	Pro	Gln	Ile	Leu	Ala	Thr
		115					120					125			
Leu	His	Val	Thr	Leu	Lys	Gly	Thr	Ala	His	Ala	Lys	Ala	Ile	Ser	Leu
	130					135					140				
Phe	Gly	Gly	Ile	Gly	Gly	Ile	Ala	Phe	Ile	Val	Gly	Gln	Met	Gly	Gly
145					150					155					160
Gly	Trp	Leu	Val	Ser	Ala	Asp	Ile	Ala	Gly	Leu	Gly	Trp	Arg	Asn	Ala
			165						170					175	
Phe	Phe	Ile	Asn	Val	Pro	Ile	Cys	Leu	Val	Val	Leu	Ala	Leu	Ser	Arg
		180					185					190			
Arg	Tyr	Val	Pro	Glu	Thr	Arg	Arg	Asp	Thr	Pro	Ser	Arg	Ile	Asp	Trp
		195					200					205			
Thr	Gly	Thr	Val	Leu	Leu	Thr	Ala	Ile	Leu	Cys	Cys	Leu	Leu	Phe	Pro
	210					215					220				
Met	Ala	Leu	Gly	Pro	Gln	Trp	His	Trp	Ser	Trp	Pro	Leu	Lys	Ala	Ala
225					230						235				240
Leu	Leu	Ala	Ile	Val	Pro	Leu	Val	Cys	Val	Met	Val	Leu	Asn	Ala	Arg
			245						250					255	
Lys	Lys	Glu	Arg	Glu	Asn	Ala	His	Pro	Leu	Ile	Ala	Pro	Arg	Leu	Leu
			260					265					270		
Gln	Leu	Arg	Ser	Ile	Arg	Phe	Gly	Val	Leu	Ile	Gly	Ile	Leu	Phe	Phe
		275					280					285			
Ser	Val	Trp	Ser	Gly	Phe	Met	Phe	Cys	Met	Ala	Leu	Thr	Met	Gln	Ser
	290					295					300				
Gly	Leu	Gly	Met	Ala	Pro	Trp	Gln	Ser	Gly	Asn	Ser	Phe	Ile	Ala	Leu
305					310					315					320
Gly	Val	Thr	Tyr	Phe	Ile	Ser	Ala	Trp	Phe	Ala	Pro	Arg	Leu	Ile	Ala
			325						330					335	
Arg	Tyr	Ser	Thr	Ser	Ala	Ile	Leu	Leu	Thr	Gly	Leu	Ala	Ile	Gln	Leu
			340					345					350		
Val	Gly	Leu	Val	Ala	Leu	Ile	Ala	Thr	Phe	Arg	His	Trp	Gly	Met	Gln
		355					360					365			
Asn	Thr	Ala	Leu	Thr	Leu	Ala	Pro	Ala	Thr	Gly	Leu	Val	Gly	Tyr	Gly
	370					375					380				
Gln	Ala	Leu	Ile	Val	Asn	Ser	Phe	Tyr	Arg	Ile	Gly	Met	Arg	Asp	Ile
385					390						395				400
Gln	Pro	Asp	Asp	Ala	Gly	Ala	Ala	Ser	Ala	Ile	Leu	Ser	Thr	Leu	Gln

				405					410					415			
Gln	Ala	Ala	Leu	Gly	Leu	Gly	Pro	Ala	Ile	Phe	Gly	Ala	Ile	Leu	Leu		
			420					425					430				
His	Gly	Leu	Gln	Asn	His	His	Gly	Asp	Tyr	Thr	Gln	Ala	Val	Asn	Val		
		435					440					445					
Phe	Leu	Met	Val	Glu	Thr	Ala	Met	Met	Val	Val	Leu	Ala	Leu	Ala	Thr		
	450					455					460						
Leu	Arg	Met	Arg	His	Arg	Leu	Cys	Leu	Pro	Val	Val	Lys	Ala	Cys	Pro		
465					470					475					480		
Ala	Thr	Lys															

<210> 9823

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9823

Leu	Tyr	Cys	Ile	Ala	Glu	Ser	Met	Asp	Gly	Ser	Gly	Asn	Gly	Tyr	Arg		
1			5					10				15					
Trp	Asn	Asn	Tyr	Ala	Gln	Ser	Gly	Asp	Gln	Ala	Lys	Gln	Ile	Thr	Pro		
		20					25					30					
Lys	Leu	Asn	Met	Tyr	Ile	Ile	Leu	Asn	Cys	Leu	Phe	Trp	Leu	Ile	Ile		
		35					40				45						
Ser	Val	Thr	Met	Glu	Val	Thr	Gly	Thr	Leu	Leu	Leu	Pro	Glu	Thr	Arg		
	50					55					60						
Asn	Phe	Lys	Asn	Ile	Pro	Leu	Thr	Ile	His	Cys	Leu	Thr	Cys	Tyr	Val		
65				70					75						80		
Ile	Ser	Phe	Tyr	Ser	Leu	Ser	Met	Leu	Met	Gly	Tyr	Ile	Ser	Pro	Val		
			85					90						95			
Met	Ala	Tyr	Ser	Ile	Trp	Ala	Gly	Leu	Gly	Ile	Val	Leu	Ile	Thr	Val		
		100					105						110				
Met	Ser	Ser	Leu	Phe	Tyr	Arg	Leu	Lys	Ser	Ser	Ile	Leu	Glu	Lys	Ile		
		115					120					125					
Gly	Ile	Gly	Cys	Ile	Val	Thr	Gly	Leu	Ala	Ile	Ile	Ala	Phe				
	130					135					140						

<210> 9824

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9824

Pro	Tyr	Arg	Pro	Ala	Cys	Ala	Gly	Asp	Arg	Ser	Gln	Gly	Ala	Leu	Met		
1			5					10					15				
Pro	Phe	Tyr	Leu	Phe	Leu	Arg	Arg	Leu	Arg	Arg	Ser	Pro	Ala	Ala	Phe		
		20					25					30					
Cys	Gly	Leu	Ile	Ala	Ile	Ala	Leu	Leu	Val	Leu	Ile	Ser	Leu	Phe	Ala		
		35					40				45						
Pro	Trp	Leu	Ala	Pro	Gln	Asp	Pro	Asn	Trp	Gln	Asp	Ala	Ala	Ala	Arg		
	50					55				60							
Leu	Gln	Pro	Pro	Asn	Ala	Gln	His	Trp	Leu	Gly	Thr	Asp	Ser	Tyr	Gly		
65				70				75							80		
Arg	Asp	Leu	Leu	Ser	Arg	Leu	Ile	Tyr	Gly	Thr	Arg	Pro	Ala	Leu	Gly		
			85				90						95				
Leu	Val	Ala	Leu	Val	Thr	Val	Ile	Thr	Leu	Pro	Ala	Gly	Leu	Leu	Val		
		100					105					110					
Gly	Ile	Leu	Ser	Gly	Tyr	Tyr	Gly	Gly	Trp	Met	Glu	Arg	Ile	Leu	Met		
		115					120				125						
Arg	Phe	Ser	Asp	Val	Val	Met	Ser	Met	Pro	Arg	Leu	Ile	Leu	Ala	Phe		
	130					135					140						

Ala Phe Val Ala Met Leu Gly Pro Gly Leu Val Asn Gly Ala Leu Ala
 145 150 155 160
 Leu Ala Leu Thr Thr Trp Pro Ala Tyr Ala Arg Gln Ala Arg Ser Glu
 165 170 175
 Ile Gln Arg Leu Arg His Ser Asp Tyr Leu Ala Ala Ala Glu Met Met
 180 185 190
 Gly Ile Arg Gly Pro Arg Leu Leu Val Gly His Ile Leu Pro Leu Cys
 195 200 205
 Leu Pro Ser Ala Ile Val Arg Leu Ala Leu Asp Leu Ala Gly Ile Ile
 210 215 220
 Leu Ala Ala Ala Gly Leu Gly Phe Leu Gly Leu Gly Ala Arg Pro Pro
 225 230 235 240
 Met Ala Glu Trp Gly Ala Met Ile Ala Asp Gly Met Gln Val Ile Phe
 245 250 255
 Asp Gln Trp Trp Ile Ala Ala Ile Pro Gly Gly Ala Ile Leu Phe Ala
 260 265 270
 Ser Leu Ala Phe Asn Leu Leu Gly Asp Gly Leu Arg Asp Val Leu Glu
 275 280 285
 Pro Gln His Asp
 290

<210> 9825

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9825

Gln Thr Thr Glu Cys Ala Met Pro Leu Pro Asp Phe Lys Ser Ser Glu
 1 5 10 15
 Pro Tyr Thr Leu Gly Ile Glu Leu Glu Gln Val Val Asn Pro Pro
 20 25 30
 Gly Tyr Asp Leu Ser Gln Asp Ser Ser Ala Leu Ile Ala Ala Val Lys
 35 40 45
 Asp Asp Ile Lys Gly Gly Glu Val Lys His Asp Ile Thr Glu Ser Met
 50 55 60
 Leu Glu Ile Ala Thr Gly Val Cys Gln Thr Ile Asp Gln Ala Ala Ala
 65 70 75 80
 Gln Phe Ser Val Met Gln Gln Ser Ile Leu Arg Ala Ala Ala Glu His
 85 90 95
 His Ile Gln Ile Cys Gly Gly Gly Thr His Pro Phe Gln Lys Trp Gln
 100 105 110
 Arg Gln Glu Val Cys Asp Asp Glu Arg Tyr Asn Val Thr Leu Glu Arg
 115 120 125
 Phe Gly Tyr Leu Ile Leu Gln Ala Thr Val Phe Gly Gln His Val His
 130 135 140
 Val Gly Cys Arg Thr Gly Asp Asp Ala Ile Tyr Leu Leu His Gly Leu
 145 150 155 160
 Ser Arg Phe Val Pro His Phe Ile Ala Leu Ala Ala Ala Ser Pro Tyr
 165 170 175
 Met Gln Gly Thr Asp Thr Lys Phe Ala Ser Ser Arg Leu Asn Ile Phe
 180 185 190
 Ser Gly Phe Pro Asp Asn Gly Gln Met Pro Trp Val Asn Ser Trp Gln
 195 200 205
 Glu Phe Glu Gly Leu Phe Arg Arg Leu Ser Ser Thr Ser Met Ile Asp
 210 215 220
 Ser Ile Lys Asp Leu His Trp Asp Ile Arg Pro Ser Pro His Phe Gly
 225 230 235 240
 Thr Val Glu Val Arg Val Met Asp Thr Pro Leu Thr Leu Gly His Ala
 245 250 255
 Ile Asn Ile Ala Gly Leu Ile Gln Ala Thr Ser His Trp Leu Leu Thr
 260 265 270

Ala Arg Pro Tyr Lys His Gln Glu Arg Asp Phe Leu Leu Tyr Arg Phe
 275 280 285
 Asn Arg Phe Gln Ala Cys Arg Tyr Gly Leu Glu Gly Ile Leu Thr Asp
 290 295 300
 Val His Thr Gly Glu His Lys Thr Val Ala Glu Asp Ile Ala Trp Leu
 305 310 315 320
 Leu Glu Gln Val Ala Pro Ser Ala Glu Lys Leu Gly Ala Thr Ser Ala
 325 330 335
 Ile Lys Glu Ile Ala Leu Leu Leu Lys Gln Gly Lys Ser Glu Ala Gln
 340 345 350
 Arg Met Arg Asp Phe Ile Ala Asp Gly Gly Ser Leu Ile Ser Leu Val
 355 360 365
 Gln Lys His Cys Glu Leu Trp Ala Thr Ser Pro
 370 375 380

<210> 9826

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9826

Leu Thr Ile Asn Ile Thr Met Lys His Pro Leu Glu Ser Leu Leu Thr
 1 5 10 15
 Ala Gly Gly Ile Leu Leu Met Ala Leu Leu Ser Cys Leu Leu Leu Pro
 20 25 30
 Ala Pro Ser Leu Gly Leu Val Leu Ala Glu Lys Leu Val Gln Thr Phe
 35 40 45
 His Met Val Asp Leu Asn Gln Leu Tyr Thr Ile Leu Phe Cys Leu Trp
 50 55 60
 Phe Leu Val Leu Gly Ala Ile Glu Phe Phe Ile Leu Arg Phe Ile Trp
 65 70 75 80
 Arg Arg Trp Phe Ser Leu Ala Ser
 85

<210> 9827

<211> 727

<212> PRT

<213> Enterobacter cloacae

<400> 9827

Phe Tyr Gly Asp Ser Asn Gln Gly Arg Ser Ile Lys Met Phe Lys Asn
 1 5 10 15
 Asn Lys Ile Met Arg Leu Trp Leu Leu Ser Leu Ala Thr Thr Ser Val
 20 25 30
 Ala Ala Gln Ala Glu Thr Lys Glu Glu Thr Ile Thr Val Thr Gln Gly
 35 40 45
 Val Ser Glu Glu Pro Thr Ala Pro Val Lys Gly Ile Val Ala Thr Lys
 50 55 60
 Thr Leu Ser Ala Thr Lys Thr Ser Ala Glu Ile Val Lys Thr Pro Gln
 65 70 75 80
 Ser Val Ser Val Ile Thr Arg Asp Gln Met Asn Met Gln Asp Val Thr
 85 90 95
 Ser Val Ser Gln Ala Leu Arg Tyr Ser Ala Gly Val Phe Thr Glu Tyr
 100 105 110
 Arg Gly Ser Ser Asn Arg Asn Asp Glu Val Phe Val Arg Gly Phe Ser
 115 120 125
 Tyr Val Pro Lys Phe Leu Asp Gly Leu Ser Phe Gly Ala Thr Ala Ser
 130 135 140
 Ser Gln Thr Gly Thr Val Asp Pro Trp Leu Leu Glu Arg Val Glu Leu
 145 150 155 160
 Val Arg Gly Pro Ala Ser Val Leu Phe Gly Gln Val Asn Pro Gly Gly

					165					170					175
Leu	Ile	Ser	Met	Thr	Ser	Lys	Arg	Pro	Thr	Ala	Glu	Ala	Ile	His	Asn
			180					185					190		
Val	Gln	Phe	Arg	Thr	Gly	Asn	Asn	Asp	Leu	Ala	Glu	Gly	Ala	Phe	Asp
		195					200					205			
Phe	Gly	Gly	Arg	Leu	Ser	Asp	Asp	Gly	Arg	Val	Leu	Tyr	Arg	Val	Asn
	210					215				220					
Gly	Ile	Ala	Arg	Thr	Gln	His	Asn	Gln	Val	Asp	Asp	Tyr	Lys	Glu	Thr
225					230					235				240	
Arg	Met	Ala	Ile	Ala	Pro	Ala	Ile	Thr	Trp	Tyr	Pro	Asn	Asp	Gln	Thr
				245					250					255	
Arg	Phe	Thr	Leu	Leu	Thr	Ser	Tyr	Gln	Lys	Asp	Pro	Asp	Ala	Gly	Tyr
			260					265					270		
Arg	Asn	Phe	Leu	Pro	Ala	Tyr	Gly	Thr	Val	Lys	Ser	Ala	Asp	Gly	Lys
		275					280					285			
Tyr	Ile	Pro	Arg	Asp	Phe	Asn	Val	Ser	Asp	Pro	Asn	Tyr	Asn	Gln	Ser
	290					295					300				
Trp	Arg	Glu	Gln	Thr	Met	Ile	Gly	Tyr	Glu	Leu	Glu	His	Gln	Phe	Ala
305					310					315				320	
Asp	Asn	Leu	Thr	Phe	Arg	Gln	Asn	Ala	Arg	Tyr	Ala	Thr	Ile	Lys	Gln
				325					330					335	
Lys	Tyr	Arg	Tyr	Leu	Val	Tyr	Ala	Asn	Ser	Ala	Ala	Asn	Ser	Thr	Val
			340					345					350		
Leu	Thr	Arg	Arg	Ala	Gln	Arg	Glu	Ala	Arg	Thr	Thr	Asn	Glu	Phe	Gly
		355					360					365			
Leu	Asp	Asn	Gln	Leu	Glu	Tyr	Gln	Leu	Glu	Thr	Gly	Ser	Val	Ser	His
	370					375					380				
Thr	Leu	Leu	Gly	Gly	Phe	Asp	Tyr	Lys	Thr	Ser	Lys	Asp	Lys	Gln	Leu
385					390					395				400	
Leu	Ala	Arg	Gly	Ser	Gly	Ser	Gln	Tyr	Asp	Leu	Asp	Trp	Thr	Asn	Pro
			405						410					415	
Val	Tyr	Gly	Val	Asn	Val	Asp	Glu	Ser	Thr	Phe	Lys	Thr	Ala	Ser	Asp
			420					425					430		
Glu	Gln	Gln	Asn	Leu	Asp	Gln	Met	Gly	Leu	Tyr	Leu	Gln	Asp	Gln	Met
		435					440					445			
Ser	Trp	Asn	Asn	Trp	Glu	Trp	Leu	Val	Ser	Gly	Arg	Tyr	Asp	Trp	Ser
	450					455					460				
Glu	Val	Arg	Thr	Ser	Asp	Phe	Thr	Asp	Asn	Ser	Val	Thr	Gln	Gln	Asn
465					470					475				480	
Asp	Ser	Lys	Phe	Thr	Trp	Arg	Thr	Gly	Leu	Leu	Tyr	Ala	Phe	Asp	Ser
			485						490					495	
Gly	Leu	Ser	Pro	Tyr	Ile	Ser	Tyr	Ser	Thr	Ser	Phe	Glu	Pro	Asn	Leu
			500					505					510		
Gln	Thr	Asn	Arg	Ala	Pro	Gly	Val	Ala	Pro	Phe	Arg	Pro	Thr	Thr	Gly

Lys Asn Thr Phe Lys Val Pro Ser Val Asp Leu Tyr Asp Ala Met Leu
 660 665 670
 Arg Tyr Asp Leu Gly Glu Met Asn Arg Ser Leu Lys Gly Ala Ser Val
 675 680 685
 Gln Phe Asn Val Asn Asn Val Ala Asp Thr Lys Tyr Val Ala Ser Cys
 690 695 700
 Ala Ser Asp Thr Ala Cys Phe Tyr Gly Ile Gly Arg Thr Val Thr Ala
 705 710 715 720
 Thr Val Asn Tyr Ser Trp
 725

<210> 9828

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 9828

Lys Thr Cys Ser Arg Asn Cys Met Asn Cys Val Val Val Arg Ser Ala
 1 5 10 15
 Arg Cys Leu Cys Leu Thr Ser Leu Arg Pro Ser Val Met Gln Cys Ser
 20 25 30
 Tyr Arg Trp Leu Lys Pro Pro Trp Ser Leu Pro Pro Ala Ile Arg Pro
 35 40 45
 Val Pro Ser Ile Leu Lys Arg Trp Ala Leu Lys Pro Cys Gly Ala Gly
 50 55 60
 Leu Leu Arg Lys Ile Thr Met Asp Ser Lys Ser Leu Gln Glu His Ala
 65 70 75 80
 Arg Arg Val Ala Leu Glu Met Pro Phe Thr Glu His Cys Trp Pro Phe
 85 90 95
 Gly Pro Glu Tyr Asp Val Phe Lys Val Gly Gly Lys Ile Phe Met Leu
 100 105 110
 Met Ala Thr Ala His Gly Arg Ala His Val Ser Leu Lys Ser Asp Pro
 115 120 125
 Glu Lys Ser Leu Leu Asn Gln Gln Ile Tyr Arg Gly Val Glu Pro Gly
 130 135 140
 Tyr His Leu Asn Lys Lys His Trp Ile Ser Leu Tyr Gly Thr Asp Asp
 145 150 155 160
 Ile Thr Pro Glu Leu Val Thr Asp Leu Ile Thr Asp Ser Trp Asn Leu
 165 170 175
 Val Val Asp Lys Leu Pro Lys Lys Asp Gln Lys Trp Ile Arg Pro Ala
 180 185 190

<210> 9829

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9829

Leu Phe Val Ser Asp Glu Gln Asn Lys Arg Ser Asn Arg Thr Tyr Leu
 1 5 10 15
 Phe Pro Leu Arg Ala Val Ile Cys Phe Pro Phe Thr Pro Ala Arg Gly
 20 25 30
 Arg Ile Ser Ser Pro Gly Val Val Met Asp Ile Ile Ser Val Ala Leu
 35 40 45
 Lys Arg His Ser Thr Lys Ala Phe Asp Pro Ala Lys Lys Leu Thr Ala
 50 55 60
 Glu Glu Ala Glu Lys Ile Lys Thr Leu Leu Gln Tyr Ser Pro Ser Ser
 65 70 75 80
 Thr Asn Ser Gln Pro Trp His Phe Ile Val Ala Ser Thr Glu Glu Gly


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<210> 9831
<211> 262
<212> PRT
<213> Enterobacter cloacae
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<400> 9831															
Arg 1	Leu	Leu	Phe	Ser 5	Cys	Leu	Leu	His	Leu 10	His	Thr	Val	Leu	Arg 15	Tyr
Pro	Gly	Arg	Leu 20	Glu	Ala	Gly	Ser	Glu 25	Gln	Asp	Asp	Gly	Val 30	Thr	Ala
Pro	Glu	Gln 35	Thr	Gly	Phe	Pro	Ser 40	Cys	Val	Gln	His	Ile 45	Ser	His	Asp
Ile	Thr 50	Gly	Ile	Lys	Leu	Glu 55	Pro	Ile	Val	Ala	Leu 60	Ser	Ser	Ser	Arg
Ala 65	Val	Gly	Ala	Glu	Val 70	Leu	Ser	Val	Leu	Ser 75	Pro	His	Gln	Gln	Ser 80
Glu	Ser	Phe	Phe	Gln 85	Asp	Trp	Ser	Ala	Thr 90	Arg	Ala	Leu	Val 95	Leu	Leu
Glu	Ala	Gln	Ile 100	Ala	Ala	Leu	Lys	Asn 105	Pro	Phe	Pro	Cys	Asp 110	Asn	Leu
Phe	Ile	Asn 115	Leu	Pro	Ile	Thr	Val 120	Leu	Thr	Ile	Pro	Glu 125	Met	Phe	Gln
Arg	Leu 130	Leu	Gln	Leu	Asn	Ser 135	Pro	Pro	Leu	Asn	Ile 140	Glu	Leu	Val	Glu
Pro 145	Ala	Ser	Phe	Phe	Ser 150	Leu	Ser	Asp	Pro	Val 155	Arg	Gln	Arg	Val	Ser
Cys	Ala	Leu	Gln	Gln 165	Leu	Thr	Ala	Arg	Gly 170	His	Arg	Ile	Trp	Leu 175	Asp
Asp	Ile	Asp	Glu 180	Ala	Ser	Gly	Gln	Ala 185	Phe	Leu	Ser	Cys	Arg 190	Leu	Pro
Leu	Cys	Gly 195	Ile	Lys	Ile	Asp	Lys 200	Ile	Ala	Phe	Trp	Arg 205	Leu	Arg	Glu
Thr	Pro	Ala	Leu	Thr	Gln	Leu	Val 210	Thr	Leu	Cys	Ser 215	Lys	Ile	Ala	Ala
Asn	Val	Leu	Ile	Glu	Gly	Ile	Glu	Thr	Glu	Arg	Asp 220	Arg	Thr	Cys	Ala

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<210> 9832
<211> 99
<212> PRT
<213> Enterobacter cloacae
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<210> 9833
<211> 662
<212> PRT
<213> Enterobacter cloacae
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<400> 9833															
Gln	Glu	Ala	Ala	Met	Gly	Arg	Pro	Leu	Lys	Ser	Val	Phe	Lys	Lys	Glu
1				5					10					15	
His	Arg	Asp	Asp	Ile	Ser	Asn	Arg	Ser	Ala	Asn	Pro	Val	Phe	Ser	Glu
			20					25					30		
Val	Ala	Glu	Val	Phe	Leu	Ser	Arg	Arg	Arg	Phe	Leu	Gln	Met	Gly	Ala
		35					40					45			
Val	Ala	Gly	Ala	Ala	Val	Ser	Phe	Pro	Tyr	Leu	Ile	Thr	Pro	Glu	Asn
		50				55					60				
Ala	Ile	Ala	Ala	Val	Ser	Lys	Pro	Ser	Ala	Leu	Ala	Lys	Ala	Val	Ser
65				70						75				80	
Leu	Gly	Phe	Thr	Ser	Ile	Asp	Val	Ser	Thr	Glu	Asp	Thr	Val	Arg	Val
				85					90					95	
Pro	Glu	Gly	Tyr	Ile	Ala	Arg	Pro	Phe	Tyr	Arg	Trp	Gly	Asp	Pro	Thr
			100					105					110		
Gly	Ile	Lys	Asp	Asn	Met	Pro	Ala	Phe	Lys	Pro	Asp	Ala	Ser	Asn	Thr
		115				120						125			
Thr	Asp	Glu	Gln	Ala	Val	Gln	Ala	Gly	Met	His	His	Asp	Gly	Met	Ala
	130					135					140				
Trp	Phe	Ser	Leu	Pro	Gln	Gly	Ala	Gln	Asn	Pro	Glu	His	Gly	Leu	Leu
145					150					155				160	
Ala	Leu	Asn	His	Glu	Tyr	Ile	Asp	Asn	Gly	Met	Leu	Phe	Thr	Asp	Gly
				165					170					175	
Thr	Ala	Asn	Trp	Ser	Leu	Asp	Lys	Ala	Arg	Lys	Gly	Gln	Asn	Ala	Met
			180				185						190		
Gly	Val	Ser	Val	Val	Glu	Val	Lys	Lys	Thr	Gly	Ser	Gly	Trp	Glu	Val
		195					200					205			
Val	Arg	Pro	Ser	Ser	Phe	Ala	Arg	Arg	Ile	Thr	Val	Asn	Thr	Pro	Met
	210					215					220				

Gln Leu Thr Gly Pro Ala Arg His Gln Asp Leu Met Lys Thr Ala Ala
 225 230 235 240
 Asp Pro Gln Gly Glu Arg Val Leu Gly Thr Met Gln Asn Cys Ala Asn
 245 250 255
 Gly His Thr Pro Trp Gly Thr Tyr Leu Thr Cys Glu Glu Asn Trp Ser
 260 265 270
 Asp Ile Phe Val Lys Lys Ala Asp Leu Asn Pro Leu Glu Lys Arg Tyr
 275 280 285
 Gly Ile Ser Asp Ser Asp Glu Ser Tyr Arg Trp Asn Glu Val Asp Glu
 290 295 300
 Arg Phe Ser Val Asp Lys Thr Pro Asn Glu Pro Asn Arg Phe Gly Trp
 305 310 315 320
 Val Val Glu Ile Asp Pro Tyr Asn Pro Thr Ser Thr Pro Arg Lys His
 325 330 335
 Thr Ala Leu Gly Arg Phe Lys His Glu Gly Ala Ala Val Thr Leu Ala
 340 345 350
 Ala Asp Asn Arg Val Val Val Tyr Met Gly Asp Asp Gln Lys Phe Glu
 355 360 365
 Tyr Ile Tyr Lys Phe Val Ser Asp Lys Lys Tyr Asp Pro Ala Asn Arg
 370 375 380
 Glu Ala Asn Met Gln Leu Leu Thr Ser Gly Thr Leu Tyr Val Ala Arg
 385 390 395 400
 Phe Asn Glu Asp Gly Ser Gly Asp Trp Leu Pro Leu Ile Phe Gly Gln
 405 410 415
 Asn Gly Leu Asp Lys Ser Asn Gly Phe Ala Ser Gln Gly Asp Leu Leu
 420 425 430
 Ile Lys Thr Arg Leu Ala Ala Asp Val Val Gly Ala Thr Lys Met Asp
 435 440 445
 Arg Pro Glu Trp Ile Ala Val Asp Pro His Ala Ser Gly Ser Val Tyr
 450 455 460
 Cys Thr Leu Thr Asn Asn Ser Asp Arg Gly Lys Glu Gly Lys Ala Pro
 465 470 475 480
 Val Asp Ala Ala Asn Pro Arg Ala Asn Asn Val Phe Gly His Ile Met
 485 490 495
 His Trp His Glu Glu Gly Ala Asp Pro Ala Ala Ala Arg Phe Lys Trp
 500 505 510
 Asp Ile Leu Val Met Ala Gly Arg Thr Asp Gly Asp Asp Pro Lys Ala
 515 520 525
 Lys Gly Ser Met Gln Gly Ala Ala Phe Gly Ser Pro Asp Gly Leu Ser
 530 535 540
 Phe Asp His Gln Gly Val Leu Trp Ile Gln Thr Asp Val Ser Ser Ser
 545 550 555 560
 Thr Ile Asn Lys Lys Ala Tyr Glu Gly Met Gly Asn Asn Gln Met Val
 565 570 575
 Ala Thr Ile Pro Gly Thr Asn Glu Tyr Arg Arg Phe Leu Thr Gly Pro
 580 585 590
 Arg Gly Cys Glu Ile Thr Gly Ile Ala Phe Thr Pro Asp Asn Arg Thr
 595 600 605
 Leu Phe Ile Asn Ile Gln His Pro Gly Glu Gly Gly Asp Asp Ile Thr
 610 615 620
 Asp Pro Ala Asn Pro Arg Ala Val Ser Asn Trp Pro Asp Ala Ser Pro
 625 630 635 640
 Asn Gly Arg Pro Arg Ser Ser Thr Val Val Ile Thr Lys Ala Asp Gly
 645 650 655
 Gly Ile Ile Gly Ser
 660

<210> 9834

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9834

Gly	Val	Lys	Asp	Ala	Ser	Ser	Ala	Ser	Gly	His	Gly	Ser	Ala	Glu	Ala
1				5					10					15	
Ser	Ser	Asp	Gln	Asn	Pro	Thr	Leu	Gln	Arg	Gly	Leu	Gln	Asn	Arg	His
			20					25					30		
Ile	Gln	Leu	Ile	Ala	Leu	Gly	Gly	Ala	Ile	Gly	Thr	Gly	Leu	Phe	Leu
		35					40					45			
Gly	Ile	Gly	Pro	Ala	Ile	Gln	Met	Ala	Gly	Pro	Ala	Val	Leu	Leu	Gly
	50					55				60					
Tyr	Gly	Ile	Ala	Gly	Ile	Ile	Ala	Phe	Leu	Ile	Met	Arg	Gln	Leu	Gly
65					70					75				80	
Glu	Met	Val	Val	Glu	Pro	Val	Ser	Gly	Ser	Phe	Ala	His	Phe	Ala	
				85				90					95		
Tyr	Lys	Tyr	Trp	Gly	Pro	Phe	Ala	Gly	Phe	Leu	Ser	Gly	Trp	Asn	Tyr
			100					105					110		
Trp	Val	Met	Phe	Val	Leu	Val	Gly	Met	Ala	Glu	Leu	Thr	Ala	Ala	Gly
		115					120					125			
Ile	Tyr	Met	Gln	Tyr	Trp	Leu	Pro	Asp	Val	Pro	Thr	Trp	Ile	Trp	Ala
	130					135					140				
Ala	Ala	Phe	Phe	Ile	Ile	Ile	Asn	Ala	Val	Asn	Leu	Val	Asn	Val	Arg
145					150					155					160
Leu	Tyr	Gly	Glu	Thr	Glu	Phe	Trp	Phe	Ala	Leu	Ile	Lys	Val	Leu	Ala
			165					170						175	
Ile	Ile	Gly	Met	Ile	Gly	Phe	Gly	Leu	Trp	Leu	Leu	Phe	Ser	Gly	His
		180					185						190		
Gly	Gly	Glu	Arg	Ala	Thr	Ile	Asp	Asn	Leu	Trp	Gln	His	Gly	Gly	Phe
		195					200					205			
Leu	Ala	Thr	Gly	Trp	Lys	Gly	Leu	Ile	Leu	Ser	Leu	Ala	Val	Ile	Met
	210					215					220				
Phe	Ser	Phe	Gly	Gly	Leu	Glu	Leu	Ile	Gly	Ile	Thr	Ala	Ala	Glu	Ala
225					230					235					240
Arg	Asp	Pro	His	Lys	Ser	Ile	Pro	Lys	Ala	Val	Asn	Gln	Val	Val	Tyr
			245					250						255	
Arg	Ile	Leu	Leu	Phe	Tyr	Ile	Gly	Ser	Leu	Val	Val	Leu	Leu	Ala	Leu
		260						265					270		
Tyr	Pro	Trp	Val	Glu	Val	Lys	Ser	Asp	Ser	Ser	Pro	Phe	Val	Met	Ile
	275						280					285			
Phe	His	Asp	Leu	Asn	Ser	Asn	Val	Val	Ala	Ser	Ala	Leu	Asn	Phe	Val
	290					295					300				
Ile	Leu	Val	Ala	Ser	Leu	Ser	Val	Tyr	Asn	Ser	Gly	Val	Tyr	Ser	Asn
305					310					315					320
Ser	Arg	Met	Leu	Phe	Gly	Leu	Ser	Val	Gln	Gly	Asn	Ala	Pro	Lys	Phe
			325						330					335	
Leu	Thr	Arg	Val	Ser	Arg	Arg	Gly	Val	Pro	Val	Asn	Ser	Leu	Phe	Leu
		340					345						350		
Ser	Gly	Ala	Ile	Thr	Ser	Leu	Val	Val	Leu	Ile	Asn	Tyr	Leu	Leu	Pro
		355					360					365			
Lys	Glu	Ala	Phe	Gly	Leu	Leu	Met	Ala	Leu	Val	Val	Ala	Thr	Leu	Leu
	370					375					380				
Leu	Asn	Trp	Ile	Met	Ile	Cys	Leu	Ala	His	Leu	Arg	Phe	Arg	Ala	Ala
385				390					395						400
Met	Arg	Arg	Lys	Gly	Arg	Glu	Thr	Gln	Phe	Lys	Ala	Leu	Leu	Tyr	Pro
			405						410					415	
Ala	Gly	Asn	Tyr	Leu	Cys	Ile	Ala	Phe	Leu	Gly	Leu	Ile	Leu	Val	Leu
		420						425					430		
Met	Cys	Thr	Met	Asp	Glu	Met	Arg	Leu	Ser	Ala	Met	Leu	Leu	Pro	Val
		435					440					445			
Trp	Val	Val	Phe	Leu	Phe	Ile	Ala	Phe	Lys	Leu	Ser	Arg	Lys	Lys	
	450					455					460				

<210> 9835
 <211> 432
 <212> PRT
 <213> Enterobacter cloacae

<400> 9835

Ser	Ile	Thr	Phe	Tyr	Leu	Asn	Cys	Phe	Val	Ile	Asp	Tyr	Phe	Phe	Arg
1				5					10					15	
Val	Arg	Leu	Ile	Met	Val	Ser	Thr	Glu	Ser	Ser	Glu	Lys	Ala	Ile	Thr
			20					25					30		
Gln	His	Arg	Leu	Leu	Val	Pro	Arg	Leu	Ser	Leu	Met	Met	Phe	Leu	Gln
		35					40					45			
Phe	Phe	Ile	Trp	Gly	Ser	Trp	Ser	Val	Thr	Leu	Gly	Leu	Val	Met	Thr
	50					55					60				
Arg	His	Asn	Met	Ser	Leu	Leu	Ile	Gly	Asp	Ala	Phe	Ser	Ala	Gly	Pro
65					70				75						80
Ile	Ala	Ser	Ile	Leu	Ser	Pro	Phe	Val	Leu	Gly	Met	Leu	Val	Asp	Arg
				85					90					95	
Phe	Phe	Ala	Ser	Gln	Lys	Val	Met	Ala	Val	Met	His	Leu	Ala	Gly	Ala
		100						105					110		
Val	Ile	Leu	Trp	Phe	Val	Pro	Gly	Ala	Leu	Ile	Ala	Glu	Asn	Gly	Ala
		115					120					125			
Leu	Leu	Ile	Gly	Leu	Leu	Phe	Gly	Tyr	Thr	Leu	Cys	Tyr	Met	Pro	Thr
	130					135					140				
Leu	Ala	Leu	Thr	Asn	Asn	Ile	Ala	Phe	His	Ser	Leu	Ala	Asn	Val	Asp
145					150					155					160
Lys	Thr	Phe	Pro	Val	Val	Arg	Val	Phe	Gly	Thr	Ile	Gly	Trp	Ile	Ala
				165					170					175	
Ala	Gly	Ile	Phe	Ile	Gly	Val	Thr	Gly	Val	Ala	Ser	Ser	Val	Thr	Ile
			180					185					190		
Phe	Gln	Val	Ala	Ala	Val	Ser	Ser	Val	Leu	Leu	Ala	Val	Tyr	Ser	Leu
		195					200					205			
Thr	Leu	Pro	His	Thr	Pro	Ala	Pro	Ala	Lys	Gly	Leu	Pro	Val	Lys	Val
	210					215					220				
Arg	Asp	Leu	Phe	Cys	Ala	Asp	Ala	Phe	Ala	Leu	Leu	Lys	Thr	Arg	His
225					230					235					240
Phe	Phe	Val	Phe	Ser	Val	Cys	Ala	Met	Leu	Ile	Ser	Val	Pro	Leu	Gly
				245					250					255	
Thr	Tyr	Tyr	Ala	Tyr	Thr	Ala	Ser	Tyr	Leu	Ala	Asp	Ala	Gly	Ile	Ala
			260					265					270		
Asp	Val	Ser	Thr	Ala	Met	Ser	Phe	Gly	Gln	Met	Ser	Glu	Ile	Val	Phe
		275					280					285			
Met	Leu	Val	Ile	Pro	Leu	Leu	Phe	Arg	Arg	Leu	Gly	Val	Lys	Val	Met
	290					295					300				
Leu	Leu	Ile	Gly	Met	Leu	Ala	Trp	Phe	Val	Arg	Tyr	Ala	Met	Phe	Ala
305					310					315					320
Leu	Gly	Val	Ser	Glu	Glu	Gly	Arg	Ile	Leu	Leu	Tyr	Leu	Gly	Ile	Leu
				325					330					335	
Leu	His	Gly	Val	Cys	Tyr	Asp	Phe	Phe	Phe	Val	Val	Gly	Phe	Ile	Tyr
			340					345					350		
Thr	Asp	Arg	Val	Ala	Gly	Glu	Lys	Val	Lys	Gly	Gln	Ala	Gln	Ser	Met
		355					360					365			
Ile	Val	Met	Phe	Thr	Tyr	Gly	Ile	Gly	Met	Leu	Leu	Gly	Ser	Gln	Ile
	370					375					380				
Ser	Gly	Ala	Leu	Tyr	Asn	Arg	Leu	Val	Ala	Gly	Gln	Thr	Val	Pro	Gln
385					390					395					400
Ala	Trp	Val	Thr	Phe	Trp	Trp	Ile	Pro	Ala	Val	Ala	Ala	Ala	Ala	Ile
				405					410					415	
Ala	Leu	Ile	Phe	Leu	Leu	Thr	Phe	Lys	Tyr	Asp	Asp	Asp	Lys	Ala	
			420					425					430		

<210> 9836
 <211> 347
 <212> PRT
 <213> Enterobacter cloacae

<400> 9836

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Arg Ser Gly Gly Gly Met Arg Thr Met Lys Gly Pro Gly Ile Phe Leu
1      5      10      15
Ser Gln Phe Ile Gly Ala Glu Ala Pro Phe Asn Ser Leu Asp Gly Leu
20      25      30
Ala Glu Trp Ala Ala Gly Lys Gly Tyr Lys Ala Val Gln Ile Pro Cys
35      40      45
Asn His Pro His Ile Phe Asp Val Glu Lys Ala Ala Glu Ser Gln Ala
50      55      60
Tyr Cys Asp Asp Ile Thr Ala Arg Leu Ala Ala His Gly Leu Val Ile
65      70      75      80
Ser Glu Leu Ser Thr His Leu Glu Gly Gln Leu Val Ala Val Asn Pro
85      90      95
Val Tyr Ser Glu Ala Phe Asp His Phe Ala Pro Ala Ala Val Arg Gly
100     105     110
Asn Glu Ala Ala Arg Arg Ala Trp Ala Thr Glu Lys Leu Lys Gln Ala
115     120     125
Ala Val Ala Ser Ala Arg Leu Gly Leu Lys Ala His Ala Thr Phe Ser
130     135     140
Gly Ser Leu Ala Trp Pro Phe Phe Tyr Pro Trp Pro Pro His Asn Gln
145     150     155     160
Gln Arg Phe Gln Glu Ala Phe Glu Glu Leu Ala Thr Arg Trp Arg Pro
165     170     175
Ile Leu Asp Thr Phe Asp Glu Gln Gly Val Asp Val Cys Phe Glu Leu
180     185     190
His Pro Gly Glu Asp Leu His Asp Gly Val Thr Phe Glu Arg Phe Leu
195     200     205
Ala Leu Val Asp Asn His Pro Arg Cys Asn Ile Leu Tyr Asp Pro Ser
210     215     220
His Met Leu Leu Gln Gln Met Asp Tyr Leu Ala Phe Ile Asp Ile Phe
225     230     235     240
His Ala Arg Ile Lys Ala Phe His Val Lys Asp Ala Glu Phe Arg Pro
245     250     255
Ser Gly Arg Ser Gly Val Tyr Gly Gly Tyr Gln Pro Trp Ile Asn Arg
260     265     270
Ala Gly Arg Phe Arg Ser Pro Gly Asp Gly Gln Ile Asp Phe Lys Gly
275     280     285
Ile Phe Ser Lys Leu Thr Gln Tyr Asp Tyr Asp Gly Trp Ala Val Leu
290     295     300
Glu Trp Glu Cys Cys Leu Lys Asp Gly Asp Thr Gly Ala Ser Glu Gly
305     310     315     320
Ser Glu Phe Ile Arg Arg His Ile Ile Pro Val Ser Gly Arg Ala Phe
325     330     335
Asp Asp Phe Ala Ala Gly Gly Cys His Asp
340     345

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<210> 9837
 <211> 140
 <212> PRT
 <213> Enterobacter cloacae

<400> 9837

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Tyr His Ala Thr Ile Ser Arg Val Val Gly Ile Met Phe Lys Arg Glu
1      5      10      15
Ala Glu Gly Glu Ser Ser Met Thr Ile Ser Ala Gln Val Ile Asp Thr
20      25      30

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Ile Val Glu Trp Ile Asp Asp Asn Leu His Gln Pro Leu Arg Ile Glu
 35 40 45
 Glu Ile Ala Arg His Ala Gly Tyr Ser Lys Trp His Leu Gln Arg Leu
 50 55 60
 Phe Met Gln Tyr Lys Gly Glu Ser Leu Gly Arg Tyr Ile Arg Glu Arg
 65 70 75 80
 Lys Leu Leu Met Ala Ala Arg Asp Leu Arg Glu Ser Asp Glu Arg Val
 85 90 95
 Tyr Asp Ile Cys Leu Arg Tyr Gly Phe Asp Ser Gln Gln Thr Phe Thr
 100 105 110
 Arg Ile Phe Thr Arg Ile Phe Thr Arg Thr Phe Asn Gln Pro Pro Gly
 115 120 125
 Ala Tyr Arg Lys Glu Asn His Gly Arg Ala His
 130 135 140

<210> 9838

<211> 907

<212> PRT

<213> Enterobacter cloacae

<400> 9838

Arg Lys Asn Thr Met Thr Lys Lys Asn Phe Ser Gln Asn Met Pro Pro
 1 5 10 15
 Ala Gly Gly Gln Ala Tyr Gln Gln Thr Val Glu Gln Val Leu Ala Gln
 20 25 30
 Ala Gln Ser Gln Ala Asn Gly Leu Asp Arg Ala Glu Ala Gln Ala Arg
 35 40 45
 Leu Gln Lys His Gly Pro Asn Ala Leu Pro Glu Lys Lys Gly Lys Pro
 50 55 60
 Gly Trp Leu Arg Phe Leu Ala His Phe Asn Asp Val Leu Ile Tyr Val
 65 70 75 80
 Leu Leu Ala Ala Ala Val Leu Thr Ala Val Met Gly His Trp Val Asp
 85 90 95
 Thr Leu Val Ile Leu Gly Val Ala Val Ile Asn Ala Leu Ile Gly His
 100 105 110
 Ile Gln Glu Ser Asn Ala Glu Lys Ser Leu Lys Ser Ile Arg Asn Met
 115 120 125
 Leu Ser Ser Glu Ala Arg Val Ile Arg Asn Gly Asn His Glu Thr Ile
 130 135 140
 Pro Thr Thr Glu Ile Val Pro Gly Asp Ile Ile Val Leu Arg Ala Gly
 145 150 155 160
 Asp Arg Ile Pro Ala Asp Met Arg Leu Ile Glu Ala His Asn Leu Arg
 165 170 175
 Val Glu Glu Ala Ile Leu Thr Gly Glu Ser Thr Val Val Asp Lys His
 180 185 190
 Thr Asn Pro Leu Ser Gly Glu Leu Pro Leu Gly Asp Arg Thr Asn Leu
 195 200 205
 Val Phe Ser Gly Thr Thr Val Ser Ala Gly Gly Gly Val Gly Val Val
 210 215 220
 Ile Ala Thr Gly Gln Glu Thr Glu Leu Gly His Ile Asn Gln Met Met
 225 230 235 240
 Ala Gly Ile Glu Lys His Arg Thr Pro Leu Leu Val Gln Met Asp Lys
 245 250 255
 Leu Gly Lys Ala Ile Phe Ala Ile Ile Leu Ala Met Met Ala Ala Leu
 260 265 270
 Phe Val Phe Ser Leu Val Phe Arg Glu Ile Pro Met Gly Glu Leu Leu
 275 280 285
 Leu Ser Leu Ile Ser Leu Ala Val Ala Ser Val Pro Glu Gly Leu Pro
 290 295 300
 Ala Ile Ile Ser Ile Ile Leu Ser Leu Gly Val Gln Ala Met Ala Arg
 305 310 315 320

Lys Arg Ala Ile Ile Arg Lys Leu Pro Thr Val Glu Thr Leu Gly Ala
 325 330 335
 Met Thr Val Val Cys Ser Asp Lys Thr Gly Thr Leu Thr Met Asn Glu
 340 345 350
 Met Thr Val Lys Ala Ile Ile Thr Ala Asp Thr Cys Tyr Arg Val Asp
 355 360 365
 Gly Asn Ser Tyr Glu Pro Val Gly Asn Ile Tyr Leu Glu Gly Ser Asp
 370 375 380
 Glu Pro Val Gln Ile Gln Pro Gly Thr Val Leu Glu Gln Tyr Leu Arg
 385 390 395 400
 Thr Ile Asp Leu Cys Asn Asp Ser Gln Leu Ile Gln Asp Glu Arg Gly
 405 410 415
 Leu Trp Gly Ile Thr Gly Gly Pro Thr Glu Gly Ala Leu Lys Val Leu
 420 425 430
 Ala Ala Lys Ala His Leu Glu Pro Val Val Thr Thr Leu Val Asn Lys
 435 440 445
 Ile Pro Phe Asp Ser Gln Tyr Lys Tyr Met Ser Thr His Tyr Gln Ile
 450 455 460
 Gly Gly Glu Glu Gln Ile Leu Ile Thr Gly Ala Pro Asp Val Ile Phe
 465 470 475 480
 Ala Leu Cys Glu Gln Gln Thr Arg Asn Gly Ala Gln Ala Phe Asp
 485 490 495
 Arg Ala Tyr Trp Glu Thr Glu Met Glu Arg Tyr Ala Arg Gln Gly Leu
 500 505 510
 Arg Met Val Ala Ala Ala Phe Lys Pro Ala Asn Gly Glu Gln Ala Leu
 515 520 525
 Thr His Asp Asp Leu Ser His Gly Leu Ile Phe Leu Gly Ile Ala Gly
 530 535 540
 Met Met Asp Pro Pro Arg Pro Glu Ala Ile Glu Ala Ile Asn Ala Cys
 545 550 555 560
 Gln Gln Ala Gly Ile Arg Val Lys Met Ile Thr Gly Asp His Pro Gln
 565 570 575
 Thr Ala Met Ser Ile Gly Gln Met Leu Gly Ile Thr Asn Ser Glu Gln
 580 585 590
 Ala Val Thr Gly Tyr Gln Leu Glu Lys Met Asp Asp Ala Glu Leu Ala
 595 600 605
 Glu Ala Ala Val Lys Tyr Asp Ile Phe Ala Arg Thr Ser Pro Glu His
 610 615 620
 Lys Leu Arg Leu Val Lys Ala Leu Gln Asp Lys Gly Glu Ile Val Gly
 625 630 635 640
 Met Thr Gly Asp Gly Val Asn Asp Ala Pro Ala Leu Arg Gln Ala Asp
 645 650 655
 Val Gly Ile Ala Met Gly Ile Lys Gly Thr Glu Val Thr Lys Glu Ala
 660 665 670
 Ala Asp Met Val Leu Thr Asp Asp Asn Phe Ala Thr Ile Ala Ser Ala
 675 680 685
 Val Lys Glu Gly Arg Arg Val Tyr Asp Asn Leu Lys Lys Thr Ile Leu
 690 695 700
 Phe Ile Met Pro Thr Asn Leu Ala Gln Gly Leu Leu Ile Val Ile Ala
 705 710 715 720
 Leu Leu Ala Gly Asn Ile Ile Pro Leu Thr Pro Val Leu Ile Leu Trp
 725 730 735
 Met Asn Met Ala Thr Ser Ala Thr Leu Ser Phe Gly Leu Ala Phe Glu
 740 745 750
 Ala Ala Glu Arg Asn Ile Met Arg Arg Pro Pro Arg Gln Thr Gly Gln
 755 760 765
 His Val Met Asp Ala Tyr Ala Val Trp Arg Val Ala Phe Val Gly Thr
 770 775 780
 Met Ile Ala Ile Ala Ala Phe Ala Leu Glu Ala Trp Leu Ala Pro Arg
 785 790 795 800
 Gly His Ser Ala Glu Phe Ile Arg Thr Val Leu Leu Gln Met Leu Val

				805					810				815				
Cys	Ala	Gln	Trp	Val	Tyr	Met	Ile	Asn	Cys	Arg	Asn	Thr	Glu	Gly	Phe		
			820					825					830				
Ser	Leu	Asn	Arg	Gly	Leu	Leu	Ala	Asn	Lys	Gly	Ile	Trp	Leu	Val	Thr		
		835					840					845					
Gly	Val	Leu	Phe	Leu	Leu	Gln	Ala	Ala	Ile	Ile	Tyr	Leu	Pro	Phe	Met		
	850					855					860						
Gln	Met	Leu	Phe	Gly	Thr	Glu	Ala	Leu	Pro	Leu	Arg	Tyr	Trp	Phe	Val		
865					870					875					880		
Thr	Leu	Ala	Val	Ala	Gly	Val	Met	Phe	Phe	Val	Val	Glu	Ile	Glu	Lys		
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Arg	Leu	Thr	Arg	Arg	Phe	Arg	Lys	Ala	Ala								
			900					905									

<210> 9839

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 9839

Gly	Lys	Thr	Thr	Pro	Arg	Tyr	Phe	Leu	Met	Lys	Leu	Pro	Leu	Leu	Phe		
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Ala	Leu	Leu	Ala	Cys	Thr	Leu	Gln	Pro	Ala	Phe	Ala	Ala	Val	Ile	Pro		
			20					25					30				
Val	Arg	Val	Ala	Thr	Val	Glu	Gln	Thr	Ala	His	Ala	Ala	Glu	Arg	Gln		
	35						40					45					
Ile	Pro	Gly	Arg	Ile	Glu	Ala	Ile	His	Thr	Val	Glu	Leu	Arg	Ala	Arg		
	50				55					60							
Thr	Glu	Gly	Val	Ile	Thr	Arg	Ile	His	Phe	Arg	Asp	Gly	Gln	Tyr	Val		
65					70				75						80		
Lys	Lys	Gly	Asp	Val	Leu	Phe	Glu	Leu	Asp	Ala	Glu	Pro	Arg	Ala			
			85					90					95				
Ala	Leu	Arg	Leu	Ala	Gln	Ala	Glu	Val	Arg	Ser	Ala	Glu	Ala	Thr	Leu		
			100					105					110				
Arg	Gln	Ala	Gln	Gln	Gln	Leu	Ser	Arg	Phe	Glu	Ser	Leu	Gly	Ser	Ser		
			115					120					125				
Asn	Ala	Ile	Ser	Arg	His	Asp	Val	Asp	Asn	Ala	Arg	Met	Gln	Arg	Asp		
	130					135					140						
Val	Ala	Ser	Ala	Ala	Leu	Glu	Gln	Ala	Lys	Ala	Arg	Leu	Asp	Thr	Arg		
145					150					155					160		
Ser	Val	Thr	Leu	Asp	Tyr	Thr	Arg	Ile	Ile	Ser	Pro	Ile	Asp	Gly	Arg		
			165						170					175			
Val	Gly	His	Ser	Asn	Phe	His	Val	Gly	Ser	Leu	Val	Asn	Pro	Ala	Ser		
			180					185					190				
Gly	Val	Leu	Val	Glu	Val	Val	Gln	Leu	Asp	Pro	Ile	Arg	Ile	Ala	Phe		
	195						200					205					
Ala	Leu	Glu	Glu	Gly	Ala	Phe	Ala	Thr	Lys	Ala	Gly	Gln	His	Ala	Asp		
	210					215					220						
Ile	Ser	Ala	Met	Lys	Gln	Ala	Trp	Gln	Ala	Leu	Ile	Asp	Ser	Asn	Gly		
225					230					235					240		
Gln	Arg	Ile	Ser	Gly	Glu	Leu	Thr	Ser	Val	Asp	Asn	Arg	Ile	Asp	Pro		
			245						250					255			
Arg	Thr	Ala	Ser	Val	Met	Leu	Arg	Ala	Glu	Phe	Ala	Asn	Pro	Arg	His		
			260					265					270				
Gln	Leu	Leu	Pro	Gly	Gly	Asn	Val	Asn	Val	Tyr	Leu	Arg	Pro	Ala	Ser		
	275					280						285					
Glu	Leu	Pro	Val	Leu	Thr	Leu	Pro	Ala	Ala	Ala	Val	Gln	Gln	Asn	Gly		
	290					295					300						
Asp	Gly	Phe	Phe	Ala	Trp	Val	Ile	Asn	Ala	Glu	Asp	Lys	Ala	Glu	Met		
305					310					315					320		
Arg	Pro	Leu	Lys	Val	Ala	Gly	Gln	Ile	Gly	Gln	Gln	Phe	Gln	Ile	Ala		

325 330 335
 Ser Gly Val Lys Pro Gly Glu Arg Ala Ile Thr Asp Gly Ala Gln Arg
 340 345 350
 Val Gln Pro Gly Val Ala Val Gln Ile Leu Asn
 355 360

<210> 9840

<211> 1055

<212> PRT

<213> Enterobacter cloacae

<400> 9840

Gly Ala Ile Met Leu Thr Phe Phe Ile Lys Arg Pro Arg Phe Ala Met
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 Val Ile Ala Leu Val Ile Thr Leu Leu Gly Ala Ile Ala Leu Arg Ile
 20 25 30
 Ile Pro Val Glu Gln Tyr Pro Gln Ile Thr Pro Pro Val Val Asn Val
 35 40 45
 Ser Ala Ser Trp Pro Gly Ala Ser Ser Ala Asp Val Ala Glu Ala Ile
 50 55 60
 Ala Thr Pro Leu Glu Thr Gln Leu Asn Gly Val Asp His Met Leu Tyr
 65 70 75 80
 Met Glu Ser Thr Ser Ser Asp Glu Gly Thr Tyr Ser Leu Asn Ile Thr
 85 90 95
 Phe Ala Ala Gly Thr Asp Pro Asp Leu Ala Ala Ile Asp Val Gln Asn
 100 105 110
 Arg Val Ala Gln Ala Val Ala Gln Leu Pro Thr Glu Ala Gln Gln Asn
 115 120 125
 Gly Val Gln Val Arg Lys Arg Ala Thr Asn Leu Met Met Gly Val Ser
 130 135 140
 Leu Tyr Ser Pro Asn Asn Thr His Thr Pro Leu Phe Val Ser Asn Tyr
 145 150 155 160
 Ala Ser Thr Gln Val Arg Glu Ala Leu Ser Arg Leu Pro Gly Val Gly
 165 170 175
 Gln Val Gln Met Phe Gly Ala Arg Asp Tyr Ser Met Arg Ile Trp Leu
 180 185 190
 Arg Pro Asp Arg Met Asn Ala Leu Asn Val Thr Ser Asp Asp Val Ala
 195 200 205
 Gln Ala Leu Arg Glu Gln Asn Val Gln Gly Ala Ala Gly Gln Val Gly
 210 215 220
 Thr Pro Pro Val Phe Asn Gly Gln Gln Gln Thr Leu Thr Ile Asn Gly
 225 230 235 240
 Leu Gly Arg Leu Asn Gln Ala Asp Asp Phe Ala Asn Ile Ile Ile Arg
 245 250 255
 Ala Gly Glu Met Gly Gln Leu Val Arg Leu Lys Asp Val Ala Thr Ile
 260 265 270
 Glu Leu Gly Ser Leu Ser Tyr Ser Ser Gly Ala Gln Leu Asn Gly His
 275 280 285
 Asp Ser Ala Tyr Leu Gly Ile Tyr Pro Thr Pro Ser Ala Asn Ala Leu
 290 295 300
 Arg Val Ala Asp Ala Val Arg Ala Glu Leu Glu Arg Leu Ser Thr Arg
 305 310 315 320
 Phe Pro Asp Asp Leu Val Tyr Glu Val Lys Phe Asp Thr Thr Ser Phe
 325 330 335
 Val Ala Ala Thr Ile Lys Glu Ile Gly Val Ser Leu Ala Leu Thr Met
 340 345 350
 Leu Ala Val Val Val Val Val Ser Leu Phe Leu Gln Ser Trp Arg Ala
 355 360 365
 Thr Leu Ile Val Ala Leu Ala Ile Pro Val Ser Leu Val Gly Thr Phe
 370 375 380
 Ala Val Leu Tyr Thr Leu Gly Tyr Ser Ala Asn Thr Leu Ser Leu Phe

385					390					395					400			
Ala	Ile	Ile	Leu	Ala	Leu	Thr	Met	Val	Val	Asp	Asp	Ala	Ile	Val	Val			
				405					410					415				
Val	Glu	Ser	Val	Glu	Thr	Leu	Met	Ala	Glu	Gly	Gln	Ser	Arg	Thr	Ala			
				420					425					430				
Ala	Thr		Leu	Ala	Leu	Arg	Gln	Ile	Ala	Gly	Pro	Val	Ile	Ala	Thr			
				435					440					445				
Thr	Leu	Val	Leu	Leu	Ala	Val	Phe	Val	Pro	Val	Ala	Leu	Leu	Pro	Gly			
				450					455					460				
Ile	Val	Gly	Glu	Leu	Tyr	Arg	Gln	Phe	Ala	Val	Thr	Leu	Ser	Thr	Ala			
465					470					475					480			
Val	Thr	Leu	Ser	Ser	Leu	Val	Ala	Leu	Thr	Leu	Thr	Pro	Ala	Leu	Cys			
				485					490					495				
Ala	Leu	Leu	Leu	Arg	Pro	Arg	Pro	Ala	Gln	Pro	Ala	Ala	Val	Phe	Arg			
				500					505					510				
Gly	Phe	Asn	Arg	Gly	Leu	Asp	Ala	Thr	Arg	Thr	Leu	Tyr	Thr	Arg	Ile			
				515					520					525				
Val	Ser	Val	Phe	Asn	Leu	Arg	Pro	Trp	Leu	Ala	Leu	Leu	Ala	Thr	Ala			
				530					535					540				
Gly	Ala	Ala	Ala	Val	Val	Val	Phe	Ser	Phe	Met	Ser	Met	Pro	Lys	Gly			
545					550					555					560			
Phe	Leu	Pro	Gln	Glu	Asp	Gln	Gly	Tyr	Phe	Met	Ala	Ser	Val	Gln	Leu			
				565					570					575				
Pro	Glu	Ala	Ala	Ser	Leu	Glu	Arg	Thr	Glu	Ala	Val	Met	Thr	Thr	Ala			
				580					585					590				
Arg	Glu	Leu	Ile	Ala	Lys	Asn	Pro	Ala	Val	Glu	Asp	Val	Ile	Gln	Val			
				595					600					605				
Ser	Gly	Phe	Asn	Ile	Leu	Asn	Gly	Thr	Ser	Ala	Ser	Asn	Gly	Gly	Phe			
				610					615					620				
Ile	Ser	Ile	Met	Leu	Lys	Asp	Trp	Ser	Glu	Arg	Pro	Pro	Leu	Asp	Glu			
625					630					635					640			
Val	Met	Gly	Thr	Leu	Gln	Arg	Gln	Leu	Leu	Ala	Leu	Pro	Glu	Ala	Thr			
				645					650					655				
Ile	Met	Thr	Phe	Ala	Pro	Pro	Thr	Leu	Pro	Gly	Leu	Gly	Asn	Ala	Ser			
				660					665					670				
Gly	Phe	Asp	Leu	Arg	Ile	Gln	Ala	Gln	Ala	Gly	Gln	Ser	Pro	Ala	Glu			
				675					680					685				
Leu	Glu	Arg	Val	Thr	Arg	Glu	Val	Leu	Ala	Lys	Ala	Asn	Gln	His	Pro			
				690					695					700				
Gln	Leu	Ser	Arg	Val	Phe	Thr	Thr	Trp	Ser	Ser	Asn	Val	Pro	Gln	Met			
705					710					715					720			
Thr	Leu	Thr	Val	Asp	Arg	Glu	Arg	Ala	Ala	Arg	Leu	Asp	Val	Pro	Val			
				725					730					735				
Ser	Arg	Ile	Phe	Ser	Ser	Leu	Gln	Thr	Ala	Phe	Gly	Gly	Thr	Arg	Ala			
				740					745					750				
Gly	Asp	Phe	Ser	Val	Asn	Asn	Arg	Val	Tyr	His	Val	Val	Met	Gln	Asn			
				755					760					765				
Glu	Met	Gln	Trp	Arg	Glu	Arg	Ala	Glu	Gln	Ile	Ser	Glu	Leu	Phe	Val			
				770					775					780				
Arg	Ser	Asn	Ser	Gly	Glu	Arg	Val	Arg	Leu	Ser	Asn	Leu	Val	Thr	Ile			
785					790					795					800			
Thr	Pro	Thr	Val	Gly	Ala	Pro	Phe	Ile	Gln	Gln	Tyr	Asn	Gln	Phe	Pro			
				805					810					815				
Ser	Val	Ser	Val	Ser	Gly	Ser	Ala	Ala	Glu	Gly	Val	Ser	Ser	Ser	Thr			
				820					825									

Phe Leu Val Ala Gln Tyr Glu Ser Trp Thr Leu Pro Ala Ser Val Met
 885 890 895
 Leu Ser Val Leu Phe Ala Ile Gly Gly Ala Leu Val Trp Leu Trp Leu
 900 905 910
 Ala Gly Tyr Ala Asn Asp Val Tyr Val Gln Ile Gly Leu Val Leu Leu
 915 920 925
 Ile Ala Leu Ala Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Arg
 930 935 940
 Ala Arg Arg Met Asp Gly Met Ala Ile Val Asp Ala Ala Arg Glu Gly
 945 950 955 960
 Ala Ser Arg Arg Phe Arg Ala Val Met Met Thr Ala Val Ser Phe Ile
 965 970 975
 Ile Gly Val Leu Pro Met Met Leu Ala Thr Gly Ala Gly Ala Gln Ser
 980 985 990
 Arg Arg Ile Ile Gly Thr Thr Val Phe Ser Gly Met Leu Val Ala Thr
 995 1000 1005
 Val Val Gly Ile Val Phe Ile Pro Ala Leu Phe Val Leu Phe Gln Arg
 1010 1015 1020
 Leu Arg Glu Trp Gly His Gly Leu Thr Asp Ser Ser Pro Thr Ala His
 1025 1030 1035 1040
 Ser Ala Ser Ala Pro Glu Lys Ser Ala Ser Arg His Arg Arg
 1045 1050 1055

<210> 9841

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 9841

Gly Arg Val Val Ser Ser Gln Cys Asp Val Ala Trp Ile Ser Gln Ala
 1 5 10 15
 Ile Leu Ile Ala Leu Leu Ser Val Ser Gly Leu Ser Val Asp Arg Thr
 20 25 30
 Cys Met Val Leu Met Cys Gly Leu Gly Arg Met Ser Gln Cys Arg Ser
 35 40 45
 Leu Met Leu Ser Ile Leu Ser Asp Arg Gln Ala Asp Arg Leu Met Glu
 50 55 60
 Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly Arg Arg His Gly
 65 70 75 80
 Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu Leu Ala Ala Gly
 85 90 95
 Ser Glu Gly Pro Gly
 100

<210> 9842

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 9842

His Ser Ser Asp Ala Thr Leu Phe Ser Val Leu Ile Thr Ser Ser Asn
 1 5 10 15
 Lys Phe Met Thr Thr Ala Asp Phe Lys Arg Pro Lys Leu Glu Leu Pro
 20 25 30
 Asn Gly Ala Asp Lys Leu Leu Leu His Ser Cys Cys Ala Pro Cys Ser
 35 40 45
 Gly Glu Val Met Glu Ala Ile Gln Ala Ser Gly Ile Asp Tyr Thr Ile
 50 55 60
 Phe Phe Tyr Asn Pro Asn Ile His Pro Gln Lys Glu Tyr Leu Ile Arg
 65 70 75 80
 Lys Asp Glu Asn Ile Arg Phe Ala Glu Gln His Gly Val Pro Phe Ile

260

265

<210> 9844

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 9844

Pro Ala Ala Asp Gly Pro Ala Pro Ser Gln Pro Asp Phe Val Asn Gln
 1 5 10 15
 Tyr Lys Asp Arg Glu Met Gln Lys Val Ala Leu Val Thr Gly Ser Gly
 20 25 30
 Gln Gly Ile Gly Lys Ala Ile Ala Leu Arg Leu Val Lys Asp Gly Phe
 35 40 45
 Ala Val Ala Ile Ala Asp Tyr Asn Glu Glu Thr Ala Lys Ala Val Ala
 50 55 60
 Asp Glu Ile Thr Arg Asn Gly Gly Lys Ala Val Ala Val Lys Val Asp
 65 70 75 80
 Val Ser Asp Arg Glu Gln Val Phe Ala Ala Val Glu Lys Ala Arg Thr
 85 90 95
 Ala Leu Gly Gly Phe Asn Val Ile Val Asn Asn Ala Gly Val Ala Pro
 100 105 110
 Ser Thr Pro Ile Glu Ser Ile Thr Pro Glu Ile Val Asp Lys Val Tyr
 115 120 125
 Asn Ile Asn Val Lys Gly Val Ile Trp Gly Ile Gln Ala Ala Ile Asp
 130 135 140
 Ala Phe Arg Lys Glu Gly His Gly Gly Lys Ile Ile Asn Ala Cys Ser
 145 150 155 160
 Gln Ala Gly His Thr Gly Asn Pro Glu Leu Ala Val Tyr Ser Ser Ser
 165 170 175
 Lys Phe Ala Val Arg Gly Leu Thr Gln Thr Ala Ala Arg Asp Leu Ala
 180 185 190
 Pro Leu Gly Ile Thr Val Asn Ala Tyr Cys Pro Gly Ile Val Lys Thr
 195 200 205
 Pro Met Trp Ala Glu Ile Asp Arg Gln Val Ser Glu Ala Ala Gly Lys
 210 215 220
 Pro Leu Gly Tyr Gly Thr Glu Thr Phe Ala Lys Arg Ile Thr Leu Gly
 225 230 235 240
 Arg Leu Ser Glu Pro Glu Asp Val Ala Ala Cys Val Ser Tyr Leu Ala
 245 250 255
 Gly Pro Asp Ser Asp Tyr Met Thr Gly Gln Ser Leu Leu Ile Asp Gly
 260 265 270
 Gly Met Val Phe Asn
 275

<210> 9845

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 9845

Lys Pro Pro Pro Thr Arg Arg Gly Asn Ala Phe Trp Ala Pro Cys Arg
 1 5 10 15
 Thr Ala Pro Thr Ala Thr Arg Arg Gly Ala Pro Ile Ser Pro Ala Arg
 20 25 30
 Arg Thr Gly Arg Thr Phe Leu Ser Lys Lys Pro Ile Ser Thr Arg Trp
 35 40 45
 Lys Asn Ala Thr Ala Ser Ala Thr Ala Met Asn Arg Thr Ala Gly Thr
 50 55 60
 Arg Trp Met Ser Gly Ser Ala Leu Ile Lys Pro Leu Thr Asn Pro Thr
 65 70 75 80

Val Ser Ala Gly Trp
85

<210> 9846

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 9846

Arg	Met	Ala	Ile	Pro	Ala	Arg	Val	Arg	Ala	Ala	Asn	Leu	Ser	Ala	Gly	1	5	10	15
Thr	Leu	Phe	Pro	Phe	Pro	Asp	Gly	Arg	Leu	Met	Ile	Ser	Pro	Gln	Gly	20	25	30	
Ala	Ala	Met	Ile	Asn	Val	Gly	Ile	Gly	Ser	Gly	Phe	Ile	Gly	Pro		35	40	45	
Ala	His	Ile	Glu	Ala	Leu	Arg	Arg	Leu	Gly	Phe	Val	Gln	Val	Val	Ala	50	55	60	
Leu	Cys	Asp	Gly	Ser	Leu	Val	Lys	Ala	Gln	Glu	Lys	Ala	Arg	Gln	Leu	65	70	75	80
Asn	Val	Pro	His	Ala	Tyr	Ala	Ser	Val	Glu	Glu	Leu	Leu	Ala	His	Pro	85	90	95	
Asn	Leu	His	Ala	Val	His	Asn	Cys	Thr	Pro	Asn	His	Leu	His	Ala	Glu	100	105	110	
Ile	Asn	Arg	Gln	Ile	Leu	Arg	Ala	Gly	Lys	His	Val	Phe	Ser	Glu	Lys	115	120	125	
Pro	Leu	Cys	Met	Thr	Pro	Asp	Glu	Ala	Arg	Glu	Leu	Val	Ala	Leu	Ala	130	135	140	
Glu	Gln	Ala	Gly	Val	Val	His	Gly	Val	Ser	Phe	Val	Tyr	Arg	Gln	Phe	145	150	155	160
Ala	Met	Val	Arg	Gln	Ala	Ala	Ser	Met	Met	Arg	Ala	Gly	Thr	Val	Gly	165	170	175	
Arg	Leu	Phe	Ala	Ser	His	Gly	Ser	Tyr	Leu	Gln	Asp	Trp	Met	Leu	Leu	180	185	190	
Glu	Thr	Asp	Tyr	Asn	Trp	Arg	Val	Glu	Ala	Ala	Leu	Gly	Gly	Ala	Ser	195	200	205	
Arg	Ala	Val	Ala	Asp	Ile	Gly	Ser	His	Trp	Cys	Asp	Thr	Val	Gln	Tyr	210	215	220	
Val	Thr	Gly	Arg	Arg	Ile	Thr	Glu	Val	Met	Ala	Asp	Leu	Ser	Ile	Val	225	230	235	240
Trp	Pro	Arg	Arg	Lys	Ala	Ser	Ala	Gly	Gly	Tyr	Gln	Thr	Phe	Ser	His	245	250	255	
Asp	Glu	Gln	Ala	Glu	Tyr	Glu	Val	Lys	Pro	Val	Thr	Thr	Glu	Asp	Phe	260	265	270	
Gly	Ser	Val	Leu	Phe	Arg	Phe	Asp	Asp	Gly	Ser	Lys	Gly	Ser	Phe	Ser	275	280	285	
Val	Ser	Gln	Val	Ser	Ala	Gly	Arg	Lys	Asn	Arg	Leu	Thr	Phe	Glu	Ile	290	295	300	
Asn	Gly	Ser	Glu	Gln	Ser	Val	Ala	Trp	Asp	Gln	Glu	Ile	Pro	Gln	Gln	305	310	315	320
Leu	Trp	Ile	Gly	His	Arg	Ala	Arg	Ala	Asn	Gln	Thr	Leu	Thr	Asp	Asp	325	330	335	
Pro	Gly	Leu	Met	Asn	Pro	Asp	Val	Ala	Asp	Ser	Ala	His	Phe	Pro	Gly	340	345	350	
Gly	His	Ile	Glu	Gly	Trp	Pro	Asp	Ala	Phe	Lys	Asn	Met	Met	Ala	Gln	355	360	365	
Phe	Tyr	Arg	Ala	Val	Gln	Ala	Gly	Ala	Met	Pro	Asp	Thr	Pro	Gln	Phe	370	375	380	
Ala	Thr	Phe	His	Asp	Gly	Ala	Asn	Val	Met	Tyr	Ile	Ile	Asp	Ala	Ile	385	390	395	400
Val	Lys	Ser	His	Gln	Gln	Gln	Arg	Trp	Val	Arg	Val	Glu	Gln			405	410	415	

<210> 9847
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 9847
 Ile Tyr Gly Ser Leu His Lys Thr Leu Thr Ala Gly Cys Val Val Ala
 1 5 10 15
 Met Ser Ile Gln Lys Ile Ala Gln Leu Ala Gly Val Ser Val Ala Thr
 20 25 30
 Val Ser Arg Val Leu Asn Asn Ser Asp Thr Val Lys Ala Lys Asn Arg
 35 40 45
 Glu Arg Val Leu Arg Ala Ile Gln Glu Ser Asn Tyr Gln Pro Asn Leu
 50 55 60
 Leu Ala Arg Gln Leu Arg Thr Ala Arg Ser Tyr Met Ile Leu Val Met
 65 70 75 80
 Val Ser Asn Ile Ala Asn Pro Phe Cys Ala Glu Val Val Lys Gly Ile
 85 90 95
 Glu Ala Glu Ala Glu Lys Asn Gly Tyr Arg Ile Leu Leu Cys Asn Ser
 100 105 110
 Gly Ser Asp Ile Glu Arg Ser Arg Ser Gly Leu Ser Leu Ser Gly
 115 120 125
 Lys Ile Val Asp Gly Ile Ile Thr Met Asp Ala Phe Ser Lys Leu Pro
 130 135 140
 Glu Leu Ala Ala Leu Ile Gly Asn Ala Pro Trp Val Gln Cys Ala Glu
 145 150 155 160
 Tyr Ala Asp Ala Gly Ala Val Ser Cys Val Gly Ile Asn Asp Val Asp
 165 170 175
 Ala Ser Gln His Ala Val Ser Gln Leu Ala Asp Gly Gly Arg Lys Arg
 180 185 190
 Ile Ala Met Ile Asn His Asp Leu Ser Tyr Lys Tyr Ala Arg Leu Arg
 195 200 205
 Glu Arg Gly Tyr Lys Ser Val Ile His Leu Arg Asp Leu Asp Tyr Gln
 210 215 220
 Ala Val Glu Tyr Ala Ser Asp Leu Ser Ser Gly Ala Gly Met Ala Ala
 225 230 235 240
 Met Gln Asn Leu Leu Lys Asp Asn Pro Pro Asp Ala Val Phe Ala Val
 245 250 255
 Ser Asp Thr Leu Ala Ala Gly Ala Leu Arg Ala Ile Gln Gln Ala Gly
 260 265 270
 Leu Arg Val Pro Glu Asp Ile Ala Val Val Gly Phe Asp Gly Thr Glu
 275 280 285
 Leu Ala Asp Met Ile Ser Leu Thr Thr Ile Glu Gln Pro Ser Arg Asp
 290 295 300
 Ile Gly Arg Lys Ala Val Asp Leu Leu Leu Asn Lys Ile Asp Asn Pro
 305 310 315 320
 Asp Ala Pro Thr Glu Arg Val Met Met Asp Trp Arg Phe Ile Ser Arg
 325 330 335
 Ala Ser Thr
 340

<210> 9848
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 9848
 Asn Asp Asn Arg Arg Cys Trp Met Ser Lys Lys Ile Ile Asp Trp Asp
 1 5 10 15
 Glu Leu Arg Ala Glu Leu Leu Ser Asp Ser Glu Val Gln Ala Ser Phe

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<210> 9849
<211> 544
<212> PRT
<213> Enterobacter cloacae
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Tyr 1	Cys	Lys	Leu	Leu 5	Pro	Phe	Ala	Leu	Ala 10	Leu	Leu	Thr	Asn	Phe 15	Val
Gly	Glu	Gln	Ala 20	Val	Met	Lys	Arg	Val 25	Trp	Ser	Gly	Leu	Leu 30	Leu	Gly
Ile	Gly	Ala 35	Leu	Pro	Ala	Val	Ala 40	Ala	Thr	Cys	Glu	Gln 45	Thr	Ser	Arg
Gln	Gly 50	Asp	Ile	Gln	Gly	Lys 55	Phe	Asp	Ala	Ser	Gly 60	Glu	Val	Cys	Phe
Ser 65	Leu	Pro	Glu	Leu	Gly 70	Glu	Asn	Tyr	Val	Ser 75	Ala	Thr	Leu	Asn	Gly 80
Val	Thr	Asp	Ala 85	Arg	Leu	Leu	Asp	Gly 90	Gln	Asn	Arg	Arg	Ile	Arg 95	Thr
Leu	Ile	Glu	Asn 100	Gly	Pro	Ala	Asp	Gly 105	Glu	His	Thr	Leu	Leu 110	Phe	Ala
Leu	Pro	Val 115	Lys	Gln	Asn	Thr	Ser 120	Leu	Val	Leu	His 125	Gly	Glu	Ala	Gly
Lys	Pro 130	Trp	Arg	Phe	Gln	Trp 135	Arg	Met	Lys	Glu	Thr 140	Ser	Pro	Leu	Pro
Arg 145	Val	Gln	Met	Leu 150	Ala	Pro	Glu	Ser	Pro	Thr 155	Leu	Lys	Ala	Leu	Ala 160
Ser	Val	Ile	Ser 165	Ala	Gly	Gly	Ser	Thr 170	Glu	Ala	Phe	Trp	Gln 175	Ala	Gln
Arg	Arg	Gln 180	Gly	Thr	Pro	Met	Val 185	Glu	Pro	Val	Asp	Ala	Ser 190	His	Lys
Arg	Val	Thr 195	Phe	Leu	Trp	Arg	Gly 200	Ala	Arg	Asp	Asn 205	Val	Phe	Ile	Leu
Gly	Ser 210	Pro	Ala	Gly	Asp	His 215	Asp	Pro	Leu	Phe	Arg 220	Leu	Gly	Asn	Ser
Asp 225	Val	Trp	Phe	Arg 230	Ser	Tyr	Val	Val 235	Pro	Ala	Asp	Thr	Val	Met	Gln 240
Tyr	Lys	Leu	Ala 245	Pro	Asp	Val	Pro	Ile 250	Val	Glu	Gly	Ser	Thr	Arg 255	Asp
Gln	Arg	Arg 260	Ala	Ile	Leu	Val	Ser 265	Ala	Gln	Ala	Asp	Pro	Leu 270	Asn	Pro
Asn	Thr	Phe 275	Gly	Glu	Gln	Lys	Thr 280	Asp	Arg	Trp	Asn 285	Arg	Phe	Ser	Leu
Leu	Asp 290	Leu	Ser	Pro	Ala	Arg 295	Tyr	Cys	Ser	Val	Gln 300	Ala	Thr	Ala	Lys
Pro 305	Leu	Val	His 310	Gly	Thr	Leu	Ser	Arg 315	Gln	Ser	Phe	Ser	Ser	His	Ile 320
Leu	Gly	Asn	Ala 325	Arg	Asp	Val	Met	Ile 330	Tyr	Gln	Pro	Arg	Gly	Ala 335	Gln
Pro	Ala	Arg	Trp	Thr	Leu	Ile	Leu	Phe	Asp	Gly	Gln	Val	Tyr	Gln	Asp

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<210> 9850
<211> 298
<212> PRT
<213> Enterobacter cloacae
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<400> 9850															
Pro	Met	Ser	Asp	Tyr	Pro	Thr	Ile	Ala	Leu	Thr	Gly	Pro	Gly	Ala	Ile
1				5					10					15	
Gly	Thr	Thr	Ile	Ala	Ala	Val	Leu	His	Glu	Ala	Gly	Arg	Thr	Pro	Leu
			20					25					30		
Leu	Cys	Gly	Arg	Thr	Ala	His	Pro	Glu	Leu	Arg	Leu	Arg	His	Asp	Glu
		35					40					45			
Gly	Glu	Ile	Val	Val	Pro	Gly	Pro	Val	Leu	Thr	Asp	Pro	Ser	Val	Ile
	50					55					60				
Thr	Arg	Pro	Val	Asp	Leu	Val	Phe	Leu	Ala	Val	Lys	Thr	Thr	Gln	Asn
65					70					75					80
Ala	Asp	Ser	Ala	Gly	Trp	Leu	Arg	Ala	Leu	Cys	Asp	Glu	Asn	Thr	Val
				85					90					95	
Val	Cys	Ala	Leu	Gln	Asn	Gly	Val	Glu	Gln	Lys	Ala	Gln	Leu	Ala	Pro
			100					105					110		
Leu	Val	Asn	Gly	Ala	Thr	Val	Leu	Pro	Ser	Val	Val	Trp	Phe	Pro	Ala
		115					120					125			
Gln	Arg	Glu	Pro	Asp	Ala	Ser	Val	Trp	Leu	Arg	Ala	Lys	Pro	Arg	Leu
	130					135					140				
Thr	Leu	Pro	Asp	Val	Pro	Gln	Ala	Gln	Arg	Val	Val	Glu	Ala	Leu	Arg
145					150					155				160	
Asp	Thr	Arg	Cys	Ala	Val	Glu	Leu	Ser	Glu	Asp	Phe	Pro	Thr	Val	Ala
				165					170					175	
Trp	Arg	Lys	Leu	Leu	Gln	Asn	Ala	Val	Ala	Gly	Leu	Met	Val	Leu	Ala
			180					185					190		
Asn	Arg	Arg	Ala	Gly	Met	Phe	Arg	Arg	Glu	Asp	Ile	Ser	Glu	Leu	Ala
		195					200					205			
Leu	Ala	Tyr	Leu	Arg	Glu	Gly	Leu	Thr	Val	Ser	Arg	Ala	Glu	Gly	Ala
	210					215					220				
Lys	Leu	Asp	Asp	Ala	Val	Ala	Glu	Glu	Ile	Leu	Ala	Asn	Phe	Gln	Arg

225 230 235 240
 Ala Pro Val Asp Leu Gly Thr Ser Ile Leu Ala Asp Arg Gln Ala Asp
 245 250 255
 Arg Pro Met Glu Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly
 260 265 270
 Arg Arg His Gly Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu
 275 280 285
 Leu Ala Ala Gly Ser Glu Gly Pro Gly
 290 295

<210> 9851

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 9851

Leu Thr Cys Pro Pro Thr Ala Arg Phe Tyr Arg Pro Ile Cys Thr Pro
 1 5 10 15
 Ala Thr Leu Met Arg Leu Ser Ala Pro Ser Lys Thr Asn Arg Arg Thr
 20 25 30
 Thr Val Asn Ser Glu Lys Gln Ser Arg Gln Trp Ala His Gly Ala Asp
 35 40 45
 Met Val Val Gly Gln Leu Glu Ala Gln Gly Val Lys Gln Val Phe Gly
 50 55 60
 Ile Pro Gly Ala Lys Ile Asp Lys Val Phe Asp Ser Leu Leu Asp Ser
 65 70 75 80
 Ser Ile Glu Ile Ile Pro Val Arg His Glu Ala Asn Ala Ala Phe Met
 85 90 95
 Ala Ala Ala Val Gly Arg Leu Thr Gly Lys Ala Gly Val Ala Leu Val
 100 105 110
 Thr Ser Gly Pro Gly Cys Ser Asn Leu Ile Thr Gly Ile Ala Thr Ala
 115 120 125
 Asn Ser Glu Gly Asp Pro Val Val Ala Leu Gly Gly Ala Val Lys Arg
 130 135 140
 Ala Asp Lys Ala Lys Leu Val His Gln Ser Met Asp Thr Val Ala Met
 145 150 155 160
 Phe Ser Pro Val Thr Lys Tyr Ala Val Glu Val Asn Ser Pro Asp Ala
 165 170 175
 Ile Ala Glu Val Val Ser Asn Ala Phe Arg Ala Ala Glu Gln Gly Arg
 180 185 190
 Pro Gly Gly Ala Phe Val Ser Leu Pro Gln Asp Ile Val Asp Gln Pro
 195 200 205
 Thr Thr Gly Ala Ile Leu Pro Ala Ser Thr Ala Ala Leu Met Gly Pro
 210 215 220
 Ala Pro Glu Ser Ala Ile Asn Glu Val Ala Lys Leu Ile Ala Lys Ala
 225 230 235 240
 Lys Asn Pro Val Ile Leu Leu Gly Leu Met Ala Ser Gln Pro Ala Asn
 245 250 255
 Ser Ala Ala Leu His Lys Leu Leu Glu Arg Ser Arg Ile Pro Val Thr
 260 265 270
 Ser Thr Tyr Gln Ala Ala Gly Ala Val Asn Gln Glu His Phe Thr Arg
 275 280 285
 Phe Ala Gly Arg Val Gly Leu Phe Asn Asn Gln Ala Gly Asp Arg Leu
 290 295 300
 Leu His Leu Ala Asp Leu Ile Ile Cys Ile Gly Tyr Ser Pro Val Glu
 305 310 315 320
 Tyr Glu Pro Ser Met Trp Asn Ser Gly Asp Ala Thr Leu Val His Ile
 325 330 335
 Asp Val Leu Pro Ala Tyr Glu Glu Arg Lys Tyr Val Pro Asp Leu Glu
 340 345 350
 Leu Val Gly Asp Ile Ala Ala Thr Leu Asn Leu Leu Ala Ser Arg Ile

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<210> 9852
<211> 80
<212> PRT
<213> Enterobacter cloacae
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<210> 9853
<211> 255
<212> PRT
<213> Enterobacter cloacae
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<400> 9853															
Val	Thr	Ser	Leu	Phe	Val	Arg	Phe	Leu	Thr	Cys	Tyr	Asn	Lys	Leu	Leu
1				5					10					15	
Thr	Phe	Gln	Gly	Val	Thr	Ala	Val	Pro	Glu	Ile	Asn	Gln	His	Gly	Gln
			20					25					30		
Thr	Val	Asn	Asp	Ile	Val	Pro	Asp	Trp	Lys	Cys	Ala	Arg	Ala	Leu	Thr
		35					40					45			

Arg	Thr	Leu	Leu	Thr	Gly	Gln	Tyr	Cys	Arg	Leu	Glu	Pro	Leu	Asp	Ala
	50					55					60				
Asp	Arg	His	Ser	Ala	Asp	Leu	Phe	Glu	Ala	Tyr	Ala	Leu	Gly	Asp	Asp
65					70					75					80
Ser	Asp	Trp	Thr	Trp	Leu	Ala	Ser	Thr	Gln	Pro	Val	Ser	Val	Glu	Ala
				85					90					95	
Thr	Ala	His	Trp	Val	Leu	Gly	Lys	Val	Leu	Asp	Asp	Asp	Leu	Val	Pro
			100					105					110		
Phe	Ala	Ile	Ile	Asp	Leu	Arg	Thr	Glu	Lys	Ala	Val	Gly	Leu	Val	Ser
		115					120					125			
Tyr	Met	Ala	Ile	Glu	Arg	Phe	Gln	Gly	Ser	Val	Glu	Ile	Gly	His	Val
	130					135					140				
Thr	Trp	Ser	Arg	Arg	Met	Lys	Gly	Thr	Arg	Val	Gly	Thr	Glu	Ala	Val
145					150					155					160
Trp	Leu	Leu	Leu	Lys	Asn	Ala	Phe	Glu	His	Gln	Tyr	Arg	Arg	Leu	Glu
				165					170					175	
Trp	Lys	Cys	Asp	Ser	Met	Asn	Ile	Ala	Ser	Arg	Asn	Ala	Ala	Glu	Arg
			180					185					190		
Leu	Gly	Phe	Val	Trp	Glu	Gly	Arg	Leu	Arg	Gln	Lys	Leu	Val	Arg	Lys
		195					200					205			
Gly	Arg	Asn	Arg	Asp	Ser	Asp	Met	Leu	Ser	Ile	Ile	Asp	Gly	Glu	Trp
	210					215					220				
Pro	Gln	Arg	Asp	Ala	Glu	Leu	Arg	Ala	Trp	Leu	Ala	Ala	Glu	Asn	Phe
225					230					235					240
Asp	Gly	Glu	Gly	Arg	Gln	Val	Arg	Arg	Leu	Glu	Glu	Phe	Arg		
				245					250					255	

<210> 9854

<211> 731

<212> PRT

<213> Enterobacter cloacae

<400> 9854

Glu	Leu	Ile	Met	Asn	Asn	Thr	Thr	Met	His	Lys	Thr	Leu	Leu	Ala	Ile
1				5					10					15	
Ala	Ile	Gly	Ala	Val	Thr	His	Ser	Ala	Phe	Ala	Ala	Asp	Glu	Lys	Lys
			20					25					30		
Glu	Asp	Thr	Ile	Val	Val	Gln	Ser	Thr	Ala	Gly	Ser	Asp	Phe	Lys	Pro
	35						40					45			
Gly	Gly	Asp	Gln	Leu	Val	Pro	Ala	Phe	Leu	Asp	Gly	Gln	Val	Ala	Asn
	50					55					60				
Gly	Gly	Arg	Met	Gly	Met	Leu	Gly	Gln	Gln	Asn	Ala	Met	Asp	Val	Pro
65				70						75					80
Phe	Asn	Ile	Ile	Ser	Tyr	Thr	Ser	Lys	Leu	Val	Glu	Asp	Gln	Gln	Ala
				85					90					95	
Lys	Thr	Ile	Ala	Asp	Val	Val	Ala	Asn	Asp	Ala	Gly	Val	Gln	Phe	Val
			100					105					110		
Gln	Gly	Tyr	Gly	Asn	Ser	Ala	Glu	Thr	Phe	Arg	Ile	Arg	Gly	Leu	Lys
		115					120					125			
Phe	Asp	Gly	Asp	Asp	Met	Thr	Phe	Gly	Gly	Leu	Ser	Gly	Val	Leu	Pro
	130					135					140				
Arg	Gln	Val	Val	Asp	Ala	Gln	Met	Val	Asp	Arg	Ile	Glu	Ile	Phe	Lys
145					150					155					160
Gly	Ala	Asn	Ser	Leu	Met	Asn	Gly	Ala	Ala	Ser	Ser	Gly	Val	Gly	Gly
				165					170					175	
Met	Ile	Asn	Leu	Glu	Pro	Lys	His	Ala	Gly	Asp	Thr	Pro	Gln	Ala	Lys
			180					185					190		
Val	Gly	Val	Asp	Tyr	Thr	Ser	Asp	Ser	Gln	Ile	Gly	Thr	Thr	Leu	Asp
		195					200					205			
Ala	Gly	Arg	Arg	Phe	Gly	Asp	Asn	Asp	Gln	Phe	Gly	Ala	Arg	Val	Asn
	210					215						220			

Leu	Val	His	Arg	Glu	Gly	Glu	Thr	Gly	Val	Pro	Asn	Asp	Arg	Arg	Arg
225					230					235					240
Thr	Thr	Leu	Leu	Ser	Thr	Gly	Leu	Asp	Tyr	Lys	Gly	Asp	Arg	Phe	Arg
				245					250						255
Thr	Ser	Leu	Asp	Leu	Gly	Tyr	Gln	Lys	Lys	Thr	Phe	His	Gly	Ser	Pro
			260					265					270		
Thr	Ser	Val	Asn	Ile	Ser	Ala	Val	Asp	Phe	Val	Pro	Glu	Pro	Pro	Lys
		275					280					285			
Asn	Asp	Arg	Asn	Phe	Ser	Gln	Lys	Trp	Ala	Tyr	Ser	Asp	Ile	Glu	Asn
	290					295				300					
Glu	Phe	Gly	Met	Trp	Arg	Ser	Glu	Tyr	Asp	Ile	Thr	Asp	Ser	Trp	Thr
305					310					315					320
Ala	Tyr	Thr	Gly	Leu	Gly	Ala	Gln	His	Ala	His	Glu	Glu	Gly	Ile	Tyr
				325					330					335	
Ser	Ala	Pro	Lys	Leu	Leu	Asp	Lys	Ser	Gly	Asn	Ala	Val	Val	Ser	Arg
			340					345					350		
Leu	Asp	Thr	Asn	Arg	Ile	Ser	Asp	Ser	Val	Ser	Gly	Met	Ala	Gly	Ile
		355					360					365			
Arg	Gly	Asn	Phe	Thr	Thr	Gly	Phe	Val	Ser	His	Lys	Val	Asn	Val	Gly
	370					375					380				
Tyr	Ser	Ala	Met	Thr	Lys	Asn	Glu	Lys	Ile	Ala	Trp	Lys	Met	Ser	Ala
385					390					395					400
Thr	Lys	Asp	Asn	Pro	Thr	Thr	Asn	Ile	Tyr	His	Asn	Thr	Gly	Val	Asp
			405						410					415	
Met	Pro	Asp	Ser	Ser	Asn	Leu	Asn	Gly	Ser	Gly	Gly	Lys	Tyr	Ser	Asp
			420					425					430		
Pro	Leu	Thr	Ser	Gly	Arg	Thr	Arg	Thr	Gln	Gly	Trp	Leu	Leu	Ser	Asp
		435					440					445			
Thr	Leu	Gly	Val	Leu	Asp	Asp	Lys	Leu	Leu	Phe	Thr	Ala	Gly	Ala	Arg
	450					455					460				
His	Gln	Lys	Val	Val	Ile	Arg	Gly	Tyr	Asn	Lys	Ile	Thr	Gly	Ala	Glu
465					470					475					480
Asn	Asp	Ala	Asp	Gly	Phe	Asp	Gly	Ser	Arg	Trp	Met	Pro	Thr	Tyr	Gly
			485						490					495	
Val	Val	Tyr	Lys	Pro	Trp	Glu	Glu	Ile	Ser	Leu	Tyr	Ala	Asn	His	Thr
			500					505					510		
Glu	Ala	Leu	Gln	Pro	Gly	Glu	Thr	Ala	Pro	Arg	Ser	Ala	Asn	Asn	Tyr
	515						520					525			
Gly	Gln	Ser	Thr	Gly	Ile	Val	His	Ser	Lys	Gln	Asn	Glu	Val	Gly	Val
	530					535					540				
Lys	Ala	Asp	Phe	Gly	Arg	Val	Gly	Gly	Ser	Leu	Ala	Leu	Phe	Glu	Ile
545					550					555					560
Lys	Met	Pro	Ser	Ala	Ile	Leu	Asp	Asp	Ser	Gly	His	Tyr	Gly	Leu	Asp
			565					570						575	
Ala	Glu	Gln	Arg	Asn	Arg	Gly	Val	Glu	Leu	Asn	Val	Phe	Gly	Glu	Pro
			580					585					590		
Met	Leu	Gly	Met	Arg	Leu	Asn	Ala	Ser	Ala	Thr	Trp	Leu	Gln	Ala	Glu
	595						600					605			
Leu	Thr	Lys	Thr	Lys	Asn	Gly	Val	Asn	Gln	Gly	Asn	Asp	Ala	Ile	Gly
	610					615					620				
Ile	Pro	Ser	Phe	Tyr	Ala	Val	Leu	Gly	Ala	Glu	Tyr	Asp	Ile	Lys	Pro
625					630					635					640
Ile	Glu	Gly	Leu	Thr	Ala	Thr	Ala	Arg	Val	Asn	His	Ser	Gly	Thr	Gln
			645						650					655	
Tyr	Ala	Asp	Leu	Ala	Asn	Ser	Lys	Lys	Leu	Asp	Ser	Tyr	Thr	Thr	Leu
		660						665					670		
Asp	Leu	Gly	Met	Arg	Tyr	Arg	Phe	Ala	Val	Asn	His	Asn	Glu	Asn	Gln
	675						680					685			
Met	Thr	Val	Arg	Ala	Gly	Ile	Asp	Asn	Val	Thr	Asn	Glu	Asn	Tyr	Trp
	690					695					700				
Ser	Ser	Val	Asp	Asp	Ser	Gly	Thr	Tyr	Ile	Thr	Gln	Gly	Glu	Pro	Arg

```
<210> 9855
<211> 163
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9856
<211> 310
<212> PRT
<213> Enterobacter cloacae
```

<400>	9856															
Cys	Arg	Leu	Ser	Lys	Ile	Lys	Glu	Ser	Ala	Arg	Ala	Met	Lys	Arg	Pro	
1				5					10					15		
Asp	Tyr	Arg	Thr	Leu	Gln	Ala	Leu	Asp	Ala	Val	Ile	Arg	Glu	Arg	Gly	
			20					25					30			
Phe	Glu	Arg	Ala	Ala	Gln	Lys	Leu	Cys	Ile	Thr	Gln	Ser	Ala	Val	Ser	
			35				40					45				
Gln	Arg	Ile	Lys	Gln	Leu	Glu	Asn	Met	Phe	Gly	Gln	Pro	Leu	Leu	Val	
			50			55					60					
Arg	Thr	Val	Pro	Pro	Arg	Pro	Thr	Glu	Gln	Gly	Gln	Lys	Leu	Leu	Ala	
65					70					75					80	
Leu	Leu	Arg	Gln	Val	Glu	Leu	Leu	Glu	Asp	Glu	Trp	Leu	Gly	Asp	Glu	
				85					90					95		
Gln	Thr	Gly	Ser	Thr	Pro	Leu	Leu	Leu	Ser	Leu	Ala	Val	Asn	Ala	Asp	
			100					105					110			
Ser	Leu	Ala	Thr	Trp	Leu	Leu	Pro	Ala	Leu	Ala	Pro	Val	Leu	Ala	Asp	
			115				120					125				
Ser	Pro	Ile	Arg	Leu	Asn	Leu	Gln	Val	Glu	Asp	Glu	Thr	Arg	Thr	Gln	
			130			135					140					
Glu	Arg	Leu	Arg	Arg	Gly	Glu	Val	Val	Gly	Ala	Val	Ser	Ile	Gln	Pro	
145					150					155					160	
Gln	Ala	Leu	Pro	Ser	Cys	Leu	Val	Asp	Gln	Leu	Gly	Ala	Leu	Asp	Tyr	
				165					170					175		

Leu Phe Val Gly Ser Lys Ala Phe Ala Glu Arg Tyr Phe Pro Asn Gly
 180 185 190
 Val Thr Arg Ala Ala Leu Leu Lys Ala Pro Ala Val Ala Phe Asp His
 195 200 205
 Leu Asp Asp Met His Gln Ala Phe Leu Gln Gln Asn Phe Asp Leu Pro
 210 215 220
 Pro Gly Ser Val Pro Cys His Ile Val Asn Ser Ser Glu Ala Phe Val
 225 230 235 240
 Gln Leu Ala Arg Gln Gly Thr Thr Cys Cys Met Ile Pro His Leu Gln
 245 250 255
 Ile Glu Lys Glu Leu Lys Ser Gly Glu Leu Ile Asp Leu Thr Pro Gly
 260 265 270
 Leu Tyr Gln Arg Arg Met Leu Tyr Trp His Arg Phe Ala Pro Glu Ser
 275 280 285
 Arg Met Met Arg Asn Val Thr Asp Ala Leu Leu Ala Phe Gly His Lys
 290 295 300
 Val Leu Arg Gln Asp
 305 310

<210> 9857

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 9857

Arg Ala Ser Ala Ser Pro Ile Thr Glu Pro Leu Pro Gly Arg Thr Leu
 1 5 10 15
 Ser Ser Pro Ala Gly Ser Pro Ala Cys Leu Lys Ile Arg Ala Ser Ser
 20 25 30
 Ser Ala Ile Ser Gly Val Ala Ser Ala Gly Leu Arg Ile Thr Ala Phe
 35 40 45
 Pro Ala Ala Ile Ala Gly Ala Thr Phe Cys Ile Ser Leu Ala Ile Gly
 50 55 60
 Glu Phe His Gly Val Met Ala Ala Thr Thr Pro Arg Gly Ser
 65 70 75

<210> 9858

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9858

Cys Arg Ala Arg Arg Gly Ser Pro Asp Gly Cys Cys Thr Gly Ser Arg
 1 5 10 15
 Arg Ala Val Ala Arg Ser Pro Ala Gly Arg Pro Ala Pro Arg Pro Ala
 20 25 30
 Arg Arg Cys Thr Gln Ser Gln Asp Ala Ala Arg Ser Cys Pro Ala Lys
 35 40 45
 Arg Tyr Trp Cys Ala Cys Cys Ala Pro Glu Ser Pro Cys Thr Pro Ala
 50 55 60
 Ser Ala Pro Arg Asp Arg Arg Ser Pro Ser Ala Tyr Pro Pro Ala Gly
 65 70 75 80
 Ala Ala Arg Gln Lys Ser Asp Arg Asp Ala Ala Arg Gln Arg Pro Thr
 85 90 95
 Ala Ala Val Asn Arg Ala Pro Ala Pro Ala Pro Asp Thr Ser Leu Pro
 100 105 110
 Asp Arg Leu Pro Ser Ser Pro Tyr Leu Ser
 115 120

<210> 9859

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 9859

```

Leu His Thr Gly Thr Thr Phe Val Thr Leu Arg Ala Arg Phe Asp Thr
1      5      10      15
Glu Cys Lys Met Ser Arg Asn Val Ser Leu Ala Val Ala Phe Leu Ala
20      25      30
Thr Ala Leu Ser Gly His Ala Leu Ala Asp Gly Ile His Ser Phe Ser
35      40      45
Gln Ala Lys Thr Ala Gly Val Lys Ile Asn Ala Asp Val Pro Gly Asp
50      55      60
Phe Tyr Cys Gly Cys Lys Ile Asn Trp Gln Gly Lys Lys Gly Val Val
65      70      75      80
Asp Leu Gly Ser Cys Gly Tyr Lys Val Arg Lys Asn Glu Asn Arg Ala
85      90      95
Ser Arg Ile Glu Trp Glu His Val Val Pro Ala Trp Gln Phe Gly His
100     105     110
Gln Arg Gln Cys Trp Gln Asp Gly Gly Arg Lys Asn Cys Ala Lys Asp
115     120     125
Pro Val Tyr Arg Gln Met Glu Ser Asp Met His Asn Leu Gln Pro Ala
130     135     140
Val Gly Glu Val Asn Gly Asp Arg Gly Asn Phe Met Tyr Ser Gln Trp
145     150     155     160
Asn Gly Gly Glu Gly Gln Tyr Gly Gln Cys Ala Met Lys Val Asp Phe
165     170     175
Lys Glu Lys Val Ala Glu Pro Pro Ala Arg Ala Arg Gly Ser Ile Ala
180     185     190
Arg Thr Tyr Phe Tyr Met Arg Asp Arg Tyr Asp Leu Asn Leu Ser Arg
195     200     205
Gln Gln Thr Gln Leu Phe Asn Ala Trp Asp Lys Leu Tyr Pro Val Thr
210     215     220
Asp Trp Glu Cys Gln Arg Asp Glu Arg Ile Ala Lys Val Gln Gly Asn
225     230     235     240
His Asn Pro Tyr Val Gln Arg Ala Cys Gln Ala Gln Lys Ser
245     250     255

```

<210> 9860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 9860

```

His Met Glu Phe Leu Thr Met Arg Ile Pro Arg Ile Tyr His Pro Glu
1      5      10      15
Leu Ile Thr Pro Gly Gly Glu Ile Ala Leu Ser Asp Asp Ala Ala Asn
20      25      30
His Val Gly Arg Val Leu Arg Met Gly Ala Gly Gln Ala Ile Gln Leu
35      40      45
Phe Asp Gly Ser Asn Gln Val Phe Asp Ala Glu Ile Thr Arg Ala Asp
50      55      60
Lys Lys Ser Val His Val Lys Val Leu Arg Gly Asp Val Asp Asp Arg
65      70      75      80
Glu Ser Pro Leu His Ile His Leu Gly Gln Val Met Ser Arg Gly Glu
85      90      95
Lys Met Glu Phe Thr Ile Gln Lys Ser Ile Glu Leu Gly Val Ser Leu
100     105     110
Ile Thr Pro Leu Phe Ser Glu Arg Cys Gly Val Lys Leu Asp Ala Glu
115     120     125
Arg Leu Asn Lys Lys Ile Gln Gln Trp Gln Lys Ile Ala Ile Ala Ala
130     135     140

```

Cys Glu Gln Ser Gly Arg Asn Arg Ile Pro Glu Ile Arg Pro Ala Met
 145 150 155 160
 Asp Leu Glu Asp Trp Cys Ala Glu Glu Glu Ser Gly Leu Lys Leu Asn
 165 170 175
 Leu His Pro Arg Ala Ser Ala Ser Ile Asn Thr Leu Pro Leu Pro Val
 180 185 190
 Glu Arg Val Arg Leu Leu Ile Gly Pro Glu Gly Gly Leu Ser Ala Asp
 195 200 205
 Glu Ile Ala Met Thr Ala Arg Tyr Gln Phe Thr Asp Ile Leu Leu Gly
 210 215 220
 Pro Arg Val Leu Arg Thr Glu Thr Thr Ala Leu Thr Ala Ile Thr Ala
 225 230 235 240
 Leu Gln Val Arg Phe Gly Asp Leu Gly 250
 245

<210> 9861

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 9861

Pro Glu Lys Lys Met Ile Lys Leu Gly Ile Val Met Asp Pro Ile Ala
 1 5 10 15
 Asn Ile Asn Ile Lys Lys Asp Ser Ser Phe Ala Met Leu Leu Glu Ala
 20 25 30
 Gln Arg Arg Gly Tyr Glu Leu His Tyr Met Glu Met Asn Asp Leu Tyr
 35 40 45
 Leu Ile Asn Gly Glu Ala Arg Ala Arg Thr Arg Ile Val Asn Val Glu
 50 55 60
 Gln Asn Tyr Glu Lys Trp Tyr Glu Phe Gly Thr Glu Gln Asp Ile Ala
 65 70 75 80
 Leu Ala Asp Leu Asn Val Ile Leu Met Arg Lys Asp Pro Pro Phe Asp
 85 90 95
 Thr Glu Tyr Ile Tyr Ser Thr Tyr Ile Leu Glu Arg Ala Glu Glu Lys
 100 105 110
 Gly Thr Leu Ile Val Asn Lys Pro Gln Ser Leu Arg Asp Cys Asn Glu
 115 120 125
 Lys Leu Tyr Thr Ala Trp Phe Ser Asp Leu Thr Pro Glu Thr Leu Val
 130 135 140
 Thr Arg Ser Lys Thr Gln Leu Lys Glu Phe Trp Gln Lys His Gly Asp
 145 150 155 160
 Ile Ile Met Lys Pro Leu Asp Gly Met Gly Gly Ala Ser Ile Phe Arg
 165 170 175
 Val Lys Glu Gly Asp Pro Asn Ile Gly Val Ile Ala Glu Thr Leu Thr
 180 185 190
 Glu Leu Gly Thr Arg Tyr Cys Met Ala Gln Asn Tyr Leu Pro Ala Ile
 195 200 205
 Lys Asp Gly Asp Lys Arg Val Leu Val Val Asp Gly Glu Pro Val Pro
 210 215 220
 Tyr Cys Leu Ala Arg Ile Pro Gln Gly Gly Glu Thr Arg Gly Asn Leu
 225 230 235 240
 Ala Ala Gly Gly Arg Gly Glu Pro Arg Pro Leu Ser Glu Ser Asp Trp
 245 250 255
 Glu Ile Ala Arg Arg Val Gly Pro Thr Leu Lys Ala Lys Gly Leu Ile
 260 265 270
 Phe Val Gly Leu Asp Ile Ile Gly Asp Arg Leu Thr Glu Val Asn Val
 275 280 285
 Thr Ser Pro Thr Cys Ile Arg Glu Ile Glu Ala Glu Phe Pro Ile Ser
 290 295 300
 Ile Thr Gly Met Leu Met Asp Ala Ile Glu Lys Arg Leu Gln Lys
 305 310 315 320

<210> 9862
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 9862

```

Leu Arg Thr Gly Ser Phe Ser Cys Ala Gly Lys Val Ser Thr Arg Arg
1          5          10          15
Ser Ile Ala Cys Ala Ala Pro Arg Val Cys Ser Val Ala Asn Thr Arg
          20          25          30
Trp Pro Val Ser Ala Ala Val Ser Ala Arg Arg Ile Val Ser Leu Ser
          35          40          45
Arg Ser Ser Pro Ser Arg Ile Thr Ser Gly Ser Ser Arg Ser Ala Leu
          50          55          60
Arg Arg Ala Ser Ala Lys Asp Gly Leu Cys Arg Pro Ile Ser Arg Cys
65          70          75          80
Trp Ile Arg Gln Arg Ser Leu Trp Tyr Ile Asn Ser Thr Gly Ser Ser
          85          90          95
Arg Val Arg Ile Cys Pro Ser Val Trp
          100          105

```

<210> 9863
 <211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 9863

```

Tyr Ala Ala Ala Gly Ala Val Asp Gly Val Met Ser Ala Val Ser Pro
1          5          10          15
Cys Ala Asp Gly Leu Val Leu Arg Leu Tyr Ile Gln Pro Lys Ala Ser
          20          25          30
Arg Asp Ser Ile Val Gly Leu His Gly Asp Glu Leu Lys Val Ala Ile
          35          40          45
Thr Ala Pro Pro Val Asp Gly Gln Ala Asn Ala His Leu Thr Lys Tyr
          50          55          60
Leu Val Lys Gln Phe Arg Val Ala Lys Ser Gln Val Ile Ile Glu Lys
65          70          75          80
Gly Glu Leu Gly Arg His Lys Gln Val Lys Ile Leu Asn Pro Gln Ser
          85          90          95
Ile Pro Thr Glu Val Ala Ala Leu Thr Glu Gln Asp
          100          105

```

<210> 9864
 <211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 9864

```

Thr Met Gln Lys Val Val Leu Ala Thr Gly Asn Ala Gly Lys Val Arg
1          5          10          15
Glu Leu Ala Ser Leu Leu Asn Asp Phe Gly Leu Asp Val Val Ala Gln
          20          25          30
Thr Glu Leu Gly Val Asp Ser Ala Glu Glu Thr Gly Leu Thr Phe Ile
          35          40          45
Glu Asn Ala Ile Leu Lys Ala Arg His Ala Ala Gln Val Thr Gly Leu
          50          55          60
Pro Ala Ile Ala Asp Asp Ser Gly Leu Ala Val Asp Phe Leu Gly Gly
65          70          75          80
Ala Pro Gly Ile Tyr Ser Ala Arg Tyr Ser Gly Pro Asp Ala Thr Asp
          85          90          95

```

Gln Gln Asn Leu Glu Lys Leu Leu Val Ala Leu Lys Asp Val Pro Asp
 100 105 110
 Glu Gln Arg Thr Ala Gln Phe His Cys Val Leu Val Tyr Met Arg His
 115 120 125
 Ala Glu Asp Pro Thr Pro Ile Val Cys His Gly Ser Trp Pro Gly Val
 130 135 140
 Ile Thr Arg Glu Ala Ala Gly Asn Gly Gly Phe Gly Tyr Asp Pro Ile
 145 150 155 160
 Phe Phe Val Pro Thr Glu Gly Lys Thr Ala Ala Glu Leu Thr Arg Glu
 165 170 175
 Glu Lys Ser Ala Ile Ser His Arg Gly Arg Ala Leu Lys Leu Leu Leu
 180 185 190
 Glu Ala Leu Arg Asn Gly
 195

<210> 9865

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9865

Gly Lys Gly Trp Gln Ser Val Gly Met Gln Thr Ile Arg Ser Tyr Ala
 1 5 10 15
 Lys Gln Leu Arg Arg Glu Leu Thr Gln Glu Glu Arg Arg Leu Trp Tyr
 20 25 30
 Leu Leu Arg Ser Arg Arg Phe Glu Asn Tyr Lys Phe Arg Arg Gln His
 35 40 45
 Pro Val Gly Asn Tyr Ile Leu Asp Phe Ala Cys Cys Ala Ala Arg Leu
 50 55 60
 Ala Val Glu Leu Asp Gly Gln His Asp Glu Asn Gln Glu Tyr Asp
 65 70 75 80
 Arg Gln Arg Thr Leu Trp Leu Asn His Lys Asp Trp His Val Ile Arg
 85 90 95
 Phe Trp Asn Asn Glu Leu Trp Asn Asn Glu Glu Ala Val Leu Glu Arg
 100 105 110
 Ile Leu Glu Thr Leu Gln Ala Leu Gln Pro Ser Pro Arg Pro Ser Pro
 115 120 125

<210> 9866

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9866

Leu Ser Glu Ser Met Thr Met Gln Ala Ser Gln Phe Ser Ala Gln Val
 1 5 10 15
 Leu Asp Trp Tyr Asp Lys Tyr Gly Arg Lys Thr Leu Pro Trp Gln Ile
 20 25 30
 Glu Lys Thr Pro Tyr Lys Val Trp Leu Ser Glu Val Met Leu Gln Gln
 35 40 45
 Thr Gln Val Ala Thr Val Ile Pro Tyr Phe Glu Arg Phe Met Ala Arg
 50 55 60
 Phe Pro Thr Val Thr Asp Leu Ala Asn Ala Pro Leu Asp Glu Val Leu
 65 70 75 80
 His Leu Trp Thr Gly Leu Gly Tyr Tyr Ala Arg Ala Arg Asn Leu His
 85 90 95
 Lys Ala Ala Gln Gln Val Ala Thr Arg His Asn Gly Lys Phe Pro Glu
 100 105 110
 Thr Phe Asp Glu Val Ala Asp Leu Pro Gly Val Gly Arg Ser Thr Ala

```
<210> 9867
<211> 420
<212> PRT
<213> Enterobacter cloacae
```

<400> 9867															
Thr	Ser	Cys	Ser	Arg	Val	Lys	Thr	Ser	Thr	Ser	Lys	Ala	Ile	Arg	His
1				5					10					15	
Arg	Lys	Asn	Asn	Asn	Ala	Gln	Leu	Leu	Pro	Gly	Cys	Ala	Ala	Leu	Ala
			20					25					30		
Arg	Ala	Tyr	Gly	Phe	Val	Gly	Arg	Val	Ser	Ala	Ala	Pro	Pro	Gly	Asn
		35					40					45			
Ser	Asn	Pro	Lys	Ala	Asn	Thr	Thr	Arg	Thr	Pro	Gly	Met	Met	Lys	Lys
	50					55					60				
Leu	Leu	Ala	Leu	Ala	Leu	Val	Ala	Pro	Leu	Leu	Val	Ser	Cys	Ser	Ser
65					70					75					80
Lys	Lys	Gly	Asp	Glu	Tyr	Asn	Glu	Ala	Trp	Val	Lys	Asp	Thr	Asn	Gly
				85					90					95	
Phe	Asp	Ile	Leu	Met	Gly	Gln	Phe	Ala	His	Asn	Ile	Glu	Asn	Ile	Trp
			100					105					110		
Gly	Phe	Asn	Glu	Val	Leu	Ile	Ala	Gly	Pro	Lys	Asp	Tyr	Val	Lys	Tyr
		115					120					125			
Thr	Asp	Ala	Tyr	Gln	Thr	Arg	Ser	His	Ile	Asn	Phe	Asp	Asp	Gly	Thr
	130					135					140				
Ile	Thr	Val	Glu	Thr	Ile	Ala	Gly	Thr	Glu	Pro	Ala	Ala	His	Leu	Arg
145					150					155					160
Gln	Ala	Ile	Ile	Lys	Thr	Leu	Leu	Met	Gly	Asp	Asp	Pro	Gly	Ser	Ile
				165					170					175	
Asp	Leu	Tyr	Ser	Asp	Ala	Asp	Asp	Ile	Thr	Ile	Ser	Lys	Glu	Pro	Phe

```
<210> 9868
<211> 561
<212> PRT
<213> Enterobacter cloacae
```

<400> 9868															
Lys	Met	Ile	Tyr	Ser	Ala	Asp	Leu	Leu	Ile	Ser	Arg	Val	Ile	Val	Met
1				5					10					15	
Lys	Val	Ser	Phe	Gln	Ile	Lys	Leu	Phe	Ile	Ser	Leu	Val	Ala	Phe	Phe
			20					25					30		
Ser	Val	Leu	Phe	Ala	Leu	Leu	Gly	Gly	Tyr	Tyr	Tyr	Val	Asp	Val	Gly
		35					40					45			
Arg	Gln	Leu	Tyr	Gln	Glu	Met	Ser	Ala	Arg	Ala	Lys	Ile	Gln	Ala	Glu
	50					55					60				
Glu	Ile	Ala	Leu	Ile	Pro	Thr	Leu	Arg	Lys	Glu	Val	Glu	Gln	Lys	Asp
65					70					75					80
Ile	Gln	Gly	Ile	His	Asp	Phe	Met	Gln	Lys	Ile	Ala	Ala	Arg	Ser	Asp
				85					90					95	
Ala	Ser	Phe	Ile	Val	Ile	Gly	Asp	Asn	Lys	Gly	Leu	His	Leu	Phe	His
			100					105					110		
Ser	Val	Phe	Ala	Asp	Arg	Val	Gly	Lys	Thr	Leu	Val	Gly	Gly	Asp	Asn
		115					120					125			
Asp	Glu	Val	Leu	His	Gly	Lys	Ser	Thr	Ile	Thr	Ile	Arg	Lys	Gly	Gly
	130					135					140				
Leu	Gly	Ile	Ser	Leu	Arg	Ser	Lys	Ala	Pro	Ile	Phe	Asn	Asp	Ala	Gly
145					150					155					160
Gln	Val	Val	Gly	Ile	Val	Ser	Val	Gly	Tyr	Leu	Thr	Ser	Tyr	Leu	Asp
				165					170					175	
Thr	Ile	Thr	Val	Ser	Lys	Val	Val	Asn	Ile	Leu	Ile	Ala	Ala	Val	Leu

```
<210> 9869
<211> 213
<212> PRT
<213> Enterobacter cloacae
```

<400> 9869
Glu Ile Leu Ser Ala Ile Pro Asn Arg Ser Ile Ala Ala Arg Val Ser
1 5 10 15
Pro Pro Pro Ala Ile Glu Asn Ala Ser Leu Ser Ala Ile Ala Leu Ala
20 25 30
Thr Ile Ser Val Pro Leu Arg Lys Phe Gly Asn Ser Asn Thr Pro Thr

```
<210> 9870
<211> 282
<212> PRT
<213> Enterobacter cloacae
```

<400> 9870															
Ile 1	Phe	Leu	Ile	Leu 5	Ser	Pro	Thr	Pro	Ala 10	Ser	Leu	Thr	Val 15	His	Phe
Ser	Glu	Leu	Ile 20	Gln	Ile	Asn	Glu	Tyr 25	Gly	Ser	Asn	Ile	Met 30	Lys	Met
Arg	Ala	Ile 35	Gly	Leu	Ala	Val	Gly 40	Thr	Thr	Leu	Leu	Leu 45	Ser	Gly	Cys
Gln	Asn 50	Met	Asp	Ser	Asn	Gly 55	Leu	Met	Thr	Ser	Gly 60	Ala	Glu	Ala	Phe
Gln 65	Ala	Tyr	Ser	Leu	Ser 70	Asp	Ala	Gln	Val	Lys 75	Ala	Leu	Ser	Asp	Glu 80
Ala	Cys	Lys	Asp	Met 85	Asp	Gly	Lys	Ala	Thr 90	Leu	Ala	Pro	Ala	Asn 95	Ser
Thr	Tyr	Thr	Gln 100	Arg	Leu	Asn	Lys	Ile 105	Ala	Ser	Ala	Leu	Gly 110	Asp	Asn
Ile	Asn	Gly 115	Gln	Pro	Val	Asn	Tyr 120	Lys	Val	Tyr	Met	Ala 125	Lys	Asp	Val
Asn	Ala 130	Phe	Ala	Met	Ala	Asn 135	Gly	Cys	Ile	Arg	Val 140	Tyr	Ser	Gly	Leu
Met 145	Asp	Met	Met	Thr 150	Asp	Asn	Glu	Val	Glu	Ala 155	Val	Ile	Gly	His	Glu 160
Met	Gly	His	Val 165	Ala	Leu	Gly	His	Val	Lys 170	Lys	Gly	Met	Gln	Val 175	Ala
Leu	Gly	Thr	Asn 180	Ala	Val	Arg	Ala	Ala 185	Ala	Ala	Ser	Ala	Gly 190	Gly	Ile
Val	Gly	Ser 195	Leu	Ser	Gln	Ser	Gln 200	Leu	Gly	Asp	Val	Gly 205	Glu	Lys	Leu
Val	Asn 210	Ser	Gln	Phe	Ser	Gln 215	Arg	Gln	Glu	Ser	Glu 220	Ala	Asp	Asp	Tyr
Ser 225	Tyr	Asp	Leu	Leu	Arg 230	Lys	Arg	Gly	Ile	Asn 235	Pro	Ser	Gly	Leu	Ala 240
Thr	Ser	Phe	Glu	Lys	Leu	Ala	Lys	Leu	Glu	Glu	Gly	Arg	Gln	Ser	Ser

				245					250				255				
Met	Phe	Asp	Asp	His	Pro	Ala	Ser	Val	Glu	Arg	Ala	Gln	His	Ile	Arg		
			260					265					270				
Asp	Arg	Met	Ala	Ala	Asp	Gly	Ile	Lys									
		275					280										

<210> 9871

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 9871

Phe	Ile	Phe	Thr	Lys	Gln	Arg	Val	Ser	Gln	Val	Asn	His	Phe	Ser	Ser		
1				5					10					15			
Val	Thr	Ile	Thr	Leu	Met	Lys	Asn	Ile	Ser	Tyr	Lys	Lys	Arg	Lys	Ala		
			20					25					30				
Asp	Met	Met	Thr	Ala	Arg	Trp	Gln	Gly	Thr	Ile	Ala	Leu	Leu	Leu	Leu		
		35					40					45					
Ile	Ile	Ile	Ser	Tyr	Val	Asp	Arg	Val	Asn	Ile	Ser	Val	Met	Ile	Leu		
	50					55				60							
Asn	Pro	Glu	Phe	Ala	Glu	His	Phe	Gln	Leu	Asn	Glu	Asn	Arg	Met	Leu		
65					70					75					80		
Gln	Gly	Met	Leu	Met	Thr	Cys	Phe	Leu	Leu	Gly	Tyr	Gly	Phe	Ser	Ala		
				85					90					95			
Leu	Leu	Leu	Thr	Pro	Val	Ile	Glu	Ser	Lys	Leu	His	Tyr	Arg	Gln	Gly		
			100					105					110				
Leu	Leu	Ser	Ser	Ile	Ala	Ile	Trp	Ala	Ala	Val	Cys	Ala	Val	Ser	Pro		
		115					120					125					
Leu	Leu	Gly	Ser	Leu	Thr	Gly	Met	Leu	Ile	Ala	Arg	Val	Ile	Leu	Gly		
	130					135					140						
Ile	Ala	Glu	Gly	Pro	Leu	Phe	Ser	Leu	Lys	Thr	Arg	Phe	Ile	Ser	Asp		
145					150					155					160		
Asn	Phe	Ser	Ala	Gln	Glu	Ile	Gly	Lys	Pro	Asn	Ala	Val	Thr	Ala	Leu		
				165					170					175			
Gly	Val	Ser	Leu	Gly	Leu	Ala	Val	Gly	Phe	Pro	Leu	Val	Thr	Trp	Leu		
			180					185					190				
Met	Ser	His	Leu	Gly	Trp	Ala	Gly	Ser	Phe	Tyr	Thr	Leu	Ala	Ala	Ile		
		195					200					205					
Asn	Leu	Leu	Leu	Gly	Gly	Ser	Leu	Ile	Trp	Arg	Phe	Leu	Pro	Ala	Pro		
	210				215						220						
Arg	Lys	Leu	Pro	Thr	Ala	Lys	Lys	Pro	Gly	Phe	Val	His	Thr	Phe	Thr		
225					230					235					240		
Leu	Ala	Trp	Gln	Thr	Pro	Leu	Leu	Gly	Trp	Ile	Met	Val	Val	Glu	Ile		
				245					250					255			
Ala	Thr	Leu	Ser	Tyr	Leu	Trp	Gly	Ser	Ser	Ala	Trp	Leu	Pro	Ala	Trp		
		260					265						270				
Leu	Arg	Asp	Glu	His	His	Phe	Ser	Leu	His	Ala	Thr	Gly	Trp	Leu	Ala		
		275					280					285					
Ala	Ile	Pro	Phe	Leu	Leu	Ser	Leu	Gly	Ser	Lys	Phe	Leu	Gly	Gly	Val		
	290					295				300							
Leu	Leu	Asp	Lys	Met	Arg	Pro	Glu	Gln	Ala	Pro	Met	Leu	Phe	Val	Val		
305					310					315					320		
Gly	Gly	Ala	Met	Thr	Ala	Leu	Ser	Val	Val	Ala	Leu	Met	Leu	Ser	His		
				325					330					335			
Gln	Pro	Ala	Trp	Leu	Ala	Leu	Phe	Met	Leu	Ser	Ala	Asn	Val	Phe	Trp		
		340						345					350				
Gly	Leu	Gln	Gly	Ala	Ala	Ile	Pro	Ala	Val	Ile	Gln	His	His	Ala	Ala		
		355					360					365					
Arg	Glu	Ala	Val	Gly	Ser	Ala	Tyr	Gly	Ile	Ile	Asn	Gly	Ile	Gly	Asn		
	370					375					380						
Ile	Cys	Ala	Ala	Phe	Ile	Pro	Leu	Leu	Met	Gly	Met	Val	Met	Arg	Ser		

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<210> 9872
<211> 232
<212> PRT
<213> Enterobacter cloacae
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<210> 9873
<211> 475
<212> PRT
<213> Enterobacter cloacae
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<400> 9873															
Lys	Leu	Ile	Thr	Gln	Leu	Glu	Gly	Ile	Met	Pro	Asp	Asn	Asn	Lys	Gln
1				5					10					15	
Gly	Arg	Thr	Ser	Asn	Lys	Ala	Met	Thr	Phe	Phe	Val	Cys	Phe	Leu	Ala
			20					25					30		
Ala	Leu	Ala	Gly	Leu	Leu	Phe	Gly	Leu	Asp	Ile	Gly	Val	Ile	Ala	Gly
		35					40					45			
Ala	Leu	Pro	Phe	Ile	Thr	Asp	Glu	Phe	Gln	Ile	Ser	Ala	His	Thr	Gln
	50					55					60				
Glu	Trp	Val	Val	Ser	Ser	Met	Met	Phe	Gly	Ala	Ala	Val	Gly	Ala	Val
65					70					75					80

Gly Ser Gly Trp Leu Ser Phe Lys Leu Gly Arg Lys Lys Ser Leu Met
 85 90 95
 Ile Gly Ala Ile Leu Phe Val Ala Gly Ser Leu Phe Ser Ala Ala Ala
 100 105 110
 Pro Asn Val Glu Val Leu Ile Ile Ser Arg Val Leu Leu Gly Leu Ala
 115 120 125
 Val Gly Val Ala Ser Tyr Thr Ala Pro Leu Tyr Leu Ser Glu Ile Ala
 130 135 140
 Pro Glu Lys Ile Arg Gly Ser Met Ile Ser Met Tyr Gln Leu Met Ile
 145 150 155 160
 Thr Ile Gly Ile Leu Gly Ala Tyr Leu Ser Asp Thr Ala Phe Ser Tyr
 165 170 175
 Ser Gly Ala Trp Arg Trp Met Leu Gly Val Ile Ile Ile Pro Ala Ile
 180 185 190
 Leu Leu Leu Ile Gly Val Phe Phe Leu Pro Asp Ser Pro Arg Trp Phe
 195 200 205
 Ala Ala Lys Arg Arg Phe His Asp Ala Glu Arg Val Leu Leu Arg Leu
 210 215 220
 Arg Asp Thr Ser Ala Glu Ala Lys Asn Glu Leu Glu Glu Ile Arg Glu
 225 230 235 240
 Ser Leu Lys Val Lys Gln Ser Gly Trp Ala Leu Phe Lys Glu Asn Ser
 245 250 255
 Asn Phe Arg Arg Ala Val Phe Leu Gly Val Leu Leu Gln Ile Met Gln
 260 265 270
 Gln Phe Thr Gly Met Asn Val Ile Met Tyr Tyr Ala Pro Lys Ile Phe
 275 280 285
 Glu Leu Ala Gly Tyr Thr Asn Thr Thr Glu Gln Met Trp Gly Thr Val
 290 295 300
 Ile Val Gly Leu Thr Asn Val Leu Ala Thr Phe Ile Ala Ile Gly Leu
 305 310 315 320
 Val Asp Arg Trp Gly Arg Lys Pro Thr Leu Thr Leu Gly Phe Leu Val
 325 330 335
 Met Ala Val Gly Met Gly Val Leu Gly Thr Met Met His Met Gly Ile
 340 345 350
 His Ser Pro Thr Ala Gln Tyr Phe Ala Val Ala Met Leu Leu Met Phe
 355 360 365
 Ile Ile Gly Phe Ala Met Ser Ala Gly Pro Leu Ile Trp Val Leu Cys
 370 375 380
 Ser Glu Ile Gln Pro Leu Lys Gly Arg Asp Phe Gly Ile Thr Cys Ser
 385 390 395 400
 Thr Ala Thr Asn Trp Ile Ala Asn Met Ile Val Gly Ala Thr Phe Leu
 405 410 415
 Thr Met Leu Asn Thr Leu Gly Asn Ala Asn Thr Phe Trp Val Tyr Ala
 420 425 430
 Gly Leu Asn Leu Phe Phe Ile Val Leu Thr Ile Trp Leu Val Pro Glu
 435 440 445
 Thr Lys His Val Ser Leu Glu His Ile Glu Arg Asn Leu Met Lys Gly
 450 455 460
 Arg Pro Leu Arg Glu Ile Gly Ala His Asp
 465 470 475

<210> 9874

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9874

Tyr Ser Asp His Ala Trp Arg Cys Gly Ala Arg Val Met Ser Gly Thr
 1 5 10 15
 Leu Leu Ala Phe Asp Phe Gly Thr Lys Ser Ile Gly Val Ala Val Gly
 20 25 30

Gln Arg Ile Thr Gly Thr Ala Arg Pro Leu Thr Ala Leu Lys Ala Asn
 35 40 45
 Asp Gly Thr Pro Asp Trp Asn Leu Ile Glu Arg Leu Leu Lys Glu Trp
 50 55 60
 Gln Pro Asp Asp Val Ile Val Gly Leu Pro Leu Asn Met Asp Gly Thr
 65 70 75 80
 Glu Gln Pro Leu Thr Ala Arg Ala Arg Lys Phe Ala Asn Lys Ile His
 85 90 95
 Gly Arg Phe Gly Val Ser Val Lys Leu His Asp Glu Arg Leu Ser Thr
 100 105 110
 Val Glu Ala Arg Ala Gly Leu Phe Glu His Gly Gly Phe Arg Ala Leu
 115 120 125
 Asn Lys Gly Ser Val Asp Ser Ala Ser Ala Val Ile Ile Leu Glu Ser
 130 135 140
 Tyr Phe Asp Gln Gly Tyr
 145 150

<210> 9875

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 9875

Cys Pro Ala Val Ala Arg Phe Cys Leu Arg Gly Ser Gly Leu Pro Pro
 1 5 10 15
 Pro Thr Tyr Ser Pro Val Ala His Thr Ala Pro Arg Ala Arg Pro Gly
 20 25 30
 His Pro Asp Ala Ala Ser Ala Pro Glu Pro His Ala Gly Phe Pro Pro
 35 40 45
 Val Asp Tyr Ala Pro Asp Leu Ser Pro Ala Pro Glu Arg Tyr Arg Pro
 50 55 60
 Gly Ala Arg Ser Pro Ala Pro His Arg Ala Cys Ala Ala Trp Pro Thr
 65 70 75 80
 Pro Asp Gly Arg Phe Pro Pro Pro Ser Ala Pro Gly Val Ser Ser Arg
 85 90 95
 Cys Arg Ala Ala His Gln Ala Glu Ser His Pro Asp Leu His Ala Ala
 100 105 110
 Arg Cys Ala Gly Pro Arg Gln Arg Thr Gly Cys Ala Gly Leu Ser Pro
 115 120 125
 Ala Ala Gly Ser Gly Asn Val His Ser Gly Thr
 130 135 140

<210> 9876

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9876

Thr Thr Pro Arg Lys Met Asn Asp Ile Ala His Asn Leu Ala Gln Val
 1 5 10 15
 Arg Asp Lys Ile Ser Ala Ala Ala Thr Arg Cys Gly Arg Ala Pro Glu
 20 25 30
 Glu Ile Thr Leu Leu Ala Val Ser Lys Thr Lys Pro Ala Ser Ala Ile
 35 40 45
 Ala Glu Ala Ile Ala Ala Gly His Arg Ala Phe Gly Glu Asn Tyr Val
 50 55 60
 Gln Glu Gly Val Asp Lys Ile Leu Ala Phe Arg Glu Arg Gly Asn Ala
 65 70 75 80
 Asp Leu Gln Trp His Phe Ile Gly Pro Leu Gln Ser Asn Lys Ser Arg
 85 90 95
 Leu Val Ala Glu His Phe Asp Trp Cys His Thr Ile Asp Arg Leu Arg

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<210> 9877
<211> 195
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 9878
<211> 391
<212> PRT
<213> Enterobacter cloacae
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Asn	Cys	Tyr	Trp	Lys	His	Cys	Val	Met	Ala	Asn	Leu	Pro	Pro	Leu	Ser
1				5					10					15	
Leu	Tyr	Ile	His	Ile	Pro	Trp	Cys	Val	Gln	Lys	Cys	Pro	Tyr	Cys	Asp
			20					25					30		

Phe Asn Ser His Ala Leu Lys Gly Glu Val Pro His Asp Asp Tyr Val
 35 40 45
 Ala His Leu Leu Ala Asp Leu Asp Ala Asp Val Pro Tyr Ala Gln Gly
 50 55 60
 Arg Glu Val Lys Thr Ile Phe Ile Gly Gly Gly Thr Pro Ser Leu Leu
 65 70 75 80
 Ser Gly Pro Ala Met Gln Thr Leu Leu Asp Gly Val Arg Ala Arg Leu
 85 90 95
 Asn Leu Ala Ala Asp Ala Glu Ile Thr Met Glu Ala Asn Pro Gly Thr
 100 105 110
 Val Glu Ala Asp Arg Phe Val Glu Tyr Gln Arg Ala Gly Val Asn Arg
 115 120 125
 Ile Ser Ile Gly Val Gln Ser Phe Ser Glu Pro Lys Leu Lys Arg Leu
 130 135 140
 Gly Arg Ile His Gly Pro Glu Glu Ala Lys Arg Ala Ala Asn Leu Ala
 145 150 155 160
 Thr Gly Leu Gly Leu Arg Ser Phe Asn Leu Asp Leu Met His Gly Leu
 165 170 175
 Pro Asp Gln Ser Leu Glu Glu Ala Leu Asp Asp Leu Arg Gln Ala Ile
 180 185 190
 Glu Leu Asn Pro Pro His Leu Ser Trp Tyr Gln Leu Thr Ile Glu Pro
 195 200 205
 Asn Thr Leu Phe Gly Ser Arg Pro Pro Val Leu Pro Asp Asp Asp Ala
 210 215 220
 Leu Trp Asp Ile Phe Glu Gln Gly His Gln Leu Leu Thr Ala Ala Gly
 225 230 235 240
 Tyr Gln Gln Tyr Glu Thr Ser Ala Tyr Ala Lys Pro Gly Tyr Gln Cys
 245 250 255
 Gln His Asn Leu Asn Tyr Trp Arg Phe Gly Asp Tyr Leu Gly Ile Gly
 260 265 270
 Cys Gly Ala His Gly Lys Val Thr Phe Pro Asp Gly Arg Ile Leu Arg
 275 280 285
 Thr Ala Lys Thr Arg His Pro Arg Gly Tyr Met Glu Gly Arg Tyr Leu
 290 295 300
 Glu Arg Gln His Asp Val Glu Ala Val Asp Lys Pro Phe Glu Phe Phe
 305 310 315 320
 Met Asn Arg Phe Arg Leu Leu Glu Ala Ala Pro Arg Ala Glu Phe Thr
 325 330 335
 Arg Tyr Thr Gly Leu Pro Glu Ser Val Ile Arg Pro Gln Ile Asp Glu
 340 345 350
 Ala Leu Ala Gln Gly Tyr Leu Thr Glu Cys Asp Val Ser Trp Gln Ile
 355 360 365
 Thr Glu His Gly Lys Leu Phe Leu Asn Ser Leu Leu Glu Leu Phe Leu
 370 375 380
 Ala Glu Asn Pro Glu Gly
 385 390

<210> 9879

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 9879

Arg Cys Gln Leu Ile Glu Leu His Gln Ile Thr Thr Leu Asn Val Pro
 1 5 10 15
 Ile Thr Thr Tyr Leu Pro Leu Thr Cys Glu Glu Ser Asn Met Asn Leu
 20 25 30
 Lys Leu Gln Leu Lys Ile Leu Ser Phe Leu Gln Phe Cys Leu Trp Gly
 35 40 45
 Ser Trp Leu Thr Thr Leu Gly Ser Tyr Met Phe Val Thr Leu Lys Phe
 50 55 60

Asp	Gly	Ala	Ser	Ile	Gly	Ala	Val	Tyr	Ser	Ser	Leu	Gly	Ile	Ala	Ala
65					70					75					80
Val	Phe	Met	Pro	Thr	Leu	Leu	Gly	Ile	Val	Ala	Asp	Lys	Trp	Leu	Ser
				85					90					95	
Ala	Lys	Trp	Leu	Tyr	Met	Leu	Cys	His	Leu	Val	Gly	Ala	Gly	Thr	Leu
			100					105					110		
Phe	Met	Ala	Ala	Glu	Val	Thr	Thr	Pro	Gly	Ala	Met	Phe	Met	Val	Ile
		115					120				125				
Leu	Leu	Asn	Ser	Leu	Ala	Tyr	Met	Pro	Thr	Leu	Gly	Leu	Ile	Asn	Thr
	130					135					140				
Ile	Ser	Tyr	Tyr	Arg	Leu	Lys	Ser	Ala	Gly	Leu	Asp	Ile	Val	Thr	Asp
145					150					155					160
Phe	Pro	Pro	Ile	Arg	Ile	Trp	Gly	Thr	Ile	Gly	Phe	Ile	Met	Ala	Met
				165					170					175	
Trp	Gly	Val	Ser	Phe	Ala	Gly	Phe	Glu	Leu	Ser	His	Met	Gln	Leu	Tyr
		180						185					190		
Ile	Gly	Ala	Ala	Leu	Ser	Val	Leu	Leu	Ala	Leu	Phe	Thr	Leu	Thr	Leu
		195					200					205			
Pro	Thr	Ile	Pro	Val	Ser	Asn	Gln	Gln	Lys	Asn	Gln	Ser	Trp	Ser	Thr
	210					215					220				
Met	Leu	Gly	Leu	Asp	Ala	Phe	Ala	Leu	Phe	Lys	Asn	Lys	Arg	Met	Ala
225					230					235					240
Ile	Phe	Phe	Ile	Phe	Ser	Met	Leu	Leu	Gly	Ala	Glu	Leu	Gln	Ile	Thr
				245					250					255	
Asn	Met	Phe	Gly	Asn	Thr	Phe	Leu	His	Ser	Phe	Asp	Asn	Asp	Pro	Leu
			260					265					270		
Phe	Ala	Gly	Ser	Phe	Ile	Val	Glu	His	Ala	Ser	Val	Met	Met	Ser	Ile
		275					280					285			
Ser	Gln	Ile	Ser	Glu	Thr	Leu	Phe	Ile	Leu	Thr	Ile	Pro	Phe	Phe	Leu
	290					295					300				
Ser	Arg	Tyr	Gly	Ile	Lys	Asn	Val	Met	Leu	Ile	Ser	Ile	Ala	Ala	Trp
					310					315					320
Met	Leu	Arg	Phe	Gly	Leu	Phe	Ala	Tyr	Gly	Asp	Pro	Ser	Ala	Phe	Gly
			325						330					335	
Thr	Val	Leu	Leu	Val	Leu	Ser	Met	Ile	Val	Tyr	Gly	Cys	Ala	Phe	Asp
			340					345					350		
Phe	Phe	Asn	Ile	Ser	Gly	Ser	Val	Phe	Val	Glu	Lys	Glu	Val	Lys	Pro
		355					360					365			
Glu	Ile	Arg	Ala	Ser	Ala	Gln	Gly	Met	Phe	Leu	Met	Met	Thr	Asn	Gly
						375					380				
Phe	Gly	Cys	Ile	Leu	Gly	Gly	Val	Val	Ser	Gly	Lys	Val	Val	Glu	Met
385					390					395					400
Tyr	Thr	Thr	Asn	Gly	Ile	Thr	Asp	Trp	Gln	Pro	Val	Trp	Leu	Ile	Phe
			405						410					415	
Ala	Gly	Tyr	Ser	Leu	Val	Leu	Phe	Phe	Ala	Phe	Ile	Ala	Leu	Phe	Lys
			420					425					430		
Tyr	Lys	His	Val	Arg	Val	Pro	Asn	Gly	Ala	Gln	Pro	Ile	Ala	His	
		435					440					445			

<210> 9880

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 9880

Leu	Lys	Ala	Met	Ser	His	Arg	Leu	Ala	Val	Gln	Leu	Lys	Leu	Pro	Ile
1				5					10					15	
Thr	Pro	His	Ala	Val	Pro	Phe	Ser	His	Cys	Leu	Phe	Pro	Pro	Arg	Glu
			20					25					30		
Arg	Pro	Gly	Thr	Pro	Tyr	Arg	Asn	Trp	Lys	Ile	Pro	Thr	Met	Gln	His
		35					40					45			

Glu Leu Ile Asp Val Leu Ile Val Glu Asp Glu Asn Glu Leu Ala Gln
 50 55 60
 Leu His Ala Glu Leu Ile Gly Lys His Pro Arg Leu Arg Leu Val Gly
 65 70 75 80
 Ile Ala Ala Ser Leu Ala Asp Ala Gln Val Gln Leu Glu Ser Lys Gln
 85 90 95
 Pro Lys Leu Met Leu Leu Asp Asn Tyr Leu Pro Asp Gly Lys Gly Ile
 100 105 110
 Thr Leu Ile Ser Asn Pro Met Leu Thr Arg Ala Asn Cys Ser Val Ile
 115 120 125
 Phe Ile Thr Ala Ala Ser Asp Met Asp Thr Cys Ser Gln Ala Ile Arg
 130 135 140
 Asn Gly Ala Phe Asp Tyr Ile Leu Lys Pro Val Ser Trp Lys Arg Leu
 145 150 155 160
 Ser Gln Ser Leu Glu Arg Phe Val Gln Phe Ala Glu Gln Gln Arg Val
 165 170 175
 Trp Lys Ile Val Asp Gln Gln Asn Val Asp Ser Leu Tyr Gln Leu Gln
 180 185 190
 Ala Lys Asn Tyr Arg Leu Asp Asn Gly Ser Lys Gly Ile Glu Glu Asn
 195 200 205
 Thr Leu Ala Arg Val Gln Met Leu Phe Asn Asn Lys Ala Ala His Cys
 210 215 220
 Phe Thr Val Asp Glu Val Val Ser Glu Thr Gly Leu Ser Lys Thr Thr
 225 230 235 240
 Thr Arg Arg Tyr Leu Glu His Cys Val Glu Val Gly Phe Leu Thr Val
 245 250 255
 Glu Met Leu Tyr Gly Lys Ile Gly His Pro Arg Arg Met Tyr Arg Arg
 260 265 270
 Ser Ala Thr
 275

<210> 9881

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 9881

Cys Arg Pro Phe Ala Ala Pro Gly Ala Val Ser Glu Gly Ser Ala Val
 1 5 10 15
 Asn Gln Gln Glu Gly Gly Met Ser Ala Gln Pro Val Asp Leu Gln Ile
 20 25 30
 Phe Gly Arg Ser Leu Arg Val Asn Cys Pro Pro Glu Gln Arg Asp Ala
 35 40 45
 Leu Asn Gln Ala Ala Asp Asp Leu Asn Gln Arg Leu Gln Asp Leu Lys
 50 55 60
 Glu Arg Thr Arg Val Thr Asn Thr Glu Gln Leu Val Phe Ile Ala Ala
 65 70 75 80
 Leu Asn Ile Ser Tyr Glu Leu Thr Gln Glu Lys Ala Lys Thr Arg Asp
 85 90 95
 Tyr Ala Ala Ser Met Glu Gln Arg Ile Lys Met Leu Gln Gln Thr Ile
 100 105 110
 Glu Gln Ala Leu Leu Asp Gln Gly Arg Ser Pro Glu Arg Pro Gly Pro
 115 120 125
 Lys Phe Glu
 130

<210> 9882

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9882

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Asn Tyr Asp Asp Thr Phe Thr Leu Asn Gln Gly Phe Lys Gly Tyr Ser
1      5      10      15
Leu Arg Arg His Leu Gly Asp Ser Leu Ser Phe Leu Leu Pro Thr Thr
20      25      30
Met Thr Gln Phe Pro Glu Val Ser Ala Ser Arg Gln Asp Ile Arg Gln
35      40      45
Leu Ile Arg Gln Arg Arg Arg Ala Leu Ser Ala Glu Gln Gln Ala His
50      55      60
Phe Ala Gln Gln Ala Ala Arg Met Met Ala Tyr Pro Pro Val Val
65      70      75      80
Met Ala Asn Thr Val Ala Leu Phe Leu Ser Phe Asp Gly Glu Leu Asp
85      90      95
Thr Gln Pro Leu Ile Asp Gln Leu Trp Arg Ala Gly Lys Lys Val Tyr
100     105     110
Leu Pro Val Leu His Pro Phe Ser Arg Gly Asn Leu Leu Phe Leu His
115     120     125
Tyr His Pro His Ser Glu Leu Val Val Asn Arg Leu Lys Ile Thr Glu
130     135     140
Pro Lys Leu Asp Val Arg Asp Val Leu Pro Leu Ser Glu Leu Asp Val
145     150     155     160
Leu Ile Thr Pro Leu Val Ala Phe Asp Glu Gln Gly Gln Arg Leu Gly
165     170     175
Met Gly Gly Gly Phe Tyr Asp Arg Thr Leu Gln Asn Trp Gln Gln Tyr
180     185     190
Gly Leu Gln Pro Val Gly Tyr Ala His Asp Cys Gln Gly Val Glu Val
195     200     205
Leu Pro Val Glu Lys Trp Asp Val Pro Leu Pro Ala Val Val Thr Pro
210     215     220
Ser Lys Thr Trp Thr Trp
225     230

```

<210> 9883

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 9883

```

Phe Gln Gln Pro Arg His Gln Arg Gly Val Asn Thr Leu Val Asp Lys
1      5      10      15
Gln Pro Arg Pro Gly Asp Thr Arg Leu Pro Arg Arg Ala Glu Asn Ala
20      25      30
Val Ala Asp Pro Ala Arg Gly Leu Phe Asp Ile Gly Ile Leu Gln His
35      40      45
Asp Gly Arg Arg Phe Ala Ala Gln Phe Gln Arg Gly Arg Asp Gln Phe
50      55      60
Phe Arg Arg His Val Arg Gln Met Thr Ala Arg Gly Gly Ala Ala Gly
65      70      75      80
Lys Gly Asn Phe Pro His Ala Arg Met Thr Arg Gln Arg Ile Ala Asn
85      90      95
His Arg Ala Phe Ala Arg Gln Asp Thr Gln Gln Pro Gly Gly Gln Pro
100     105     110
Gly Leu Phe Lys Asn Pro Arg Gln Leu Gln Arg His Gln Arg Arg Gly
115     120     125
Phe Gly Gly Leu Glu Asp His Arg Val Pro Gly Gly Asn Arg Arg Cys
130     135     140
Asp Leu Leu His Phe Ala Gly Asn Arg Arg Val Pro Arg Arg Asp Gly
145     150     155     160
Arg His His Ala Lys Gly Leu Val Ala Ala Gln Arg Gln Gln Ile Arg
165     170     175
Leu Ala Arg Arg Arg Lys Phe Pro Phe Gln Gln Leu Ala Gly Gly Gly

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```
<210> 9884
<211> 386
<212> PRT
<213> Enterobacter cloacae
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<400>	9884															
Asn	Met	Ala	Lys	His	Leu	Phe	Thr	Ser	Glu	Ser	Val	Ser	Glu	Gly	His	
1				5					10					15		
Pro	Asp	Lys	Ile	Ala	Asp	Gln	Ile	Ser	Asp	Ala	Val	Leu	Asp	Ala	Ile	
			20					25					30			
Leu	Ala	Gln	Asp	Pro	Lys	Ala	Arg	Val	Ala	Cys	Glu	Thr	Tyr	Val	Lys	
			35				40					45				
Thr	Gly	Met	Val	Leu	Val	Gly	Gly	Glu	Ile	Thr	Thr	Ser	Ala	Trp	Val	
	50					55					60					
Asp	Ile	Glu	Glu	Ile	Thr	Arg	Asn	Thr	Val	Arg	Glu	Ile	Gly	Tyr	Val	
65					70					75					80	
His	Ser	Asp	Met	Gly	Phe	Asp	Ala	Asn	Ser	Cys	Ala	Val	Leu	Ser	Ala	
				85				90					95			
Ile	Gly	Lys	Gln	Ser	Pro	Asp	Ile	Asn	Gln	Gly	Val	Asp	Arg	Ala	Asp	
			100					105					110			
Pro	Leu	Glu	Gln	Gly	Ala	Gly	Asp	Gln	Gly	Leu	Met	Phe	Gly	Tyr	Ala	
		115					120					125				
Thr	Asn	Glu	Thr	Asp	Val	Leu	Met	Pro	Ala	Pro	Val	Thr	Tyr	Ala	His	
	130					135					140					
Arg	Leu	Val	Gln	Arg	Gln	Ala	Glu	Val	Arg	Lys	Asn	Gly	Thr	Leu	Pro	
145					150					155					160	
Trp	Leu	Arg	Pro	Asp	Ala	Lys	Ser	Gln	Val	Thr	Phe	Gln	Tyr	Asp	Asp	
				165				170						175		
Gly	Lys	Ile	Val	Gly	Ile	Asp	Ala	Val	Val	Leu	Ser	Thr	Gln	His	Ala	
			180					185					190			
Glu	Glu	Ile	Asp	Gln	Lys	Ser	Leu	Gln	Glu	Ala	Val	Met	Glu	Glu	Ile	
		195					200					205				
Ile	Lys	Pro	Val	Leu	Pro	Thr	Glu	Trp	Leu	Ser	Ser	Ala	Thr	Lys	Phe	
	210					215					220					
Phe	Ile	Asn	Pro	Thr	Gly	Arg	Phe	Val	Ile	Gly	Gly	Pro	Met	Gly	Asp	
225					230					235					240	
Cys	Gly	Leu	Thr	Gly	Arg	Lys	Ile	Ile	Val	Asp	Thr	Tyr	Gly	Gly	Met	
				245					250					255		
Ala	Arg	His	Gly	Gly	Gly	Ala	Phe	Ser	Gly	Lys	Asp	Pro	Ser	Lys	Val	

260 265 270
 Asp Arg Ser Ala Ala Tyr Ala Ala Arg Tyr Val Ala Lys Asn Ile Val
 275 285
 Ala Ala Gly Leu Ala Asp Arg Cys Glu Ile Gln Val Ser Tyr Ala Ile
 290 295 300
 Gly Val Ala Glu Pro Thr Ser Ile Met Val Glu Thr Phe Gly Thr Glu
 305 310 315 320
 Lys Val Pro Ser Glu Gln Leu Thr Leu Leu Val Arg Glu Phe Phe Asp
 325 330 335
 Leu Arg Pro Tyr Gly Leu Ile Gln Met Leu Asp Leu Leu His Pro Ile
 340 345 350
 Tyr Gln Glu Thr Ala Ala Tyr Gly His Phe Gly Arg Glu His Phe Pro
 355 360 365
 Trp Glu Lys Thr Asp Lys Ala Ala Leu Leu Arg Asp Ala Ala Gly Leu
 370 375 380
 Lys
 385

<210> 9885
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 9885
 Ala His Thr Thr Asp Pro Pro Ala Gly Gly Ala Ser Cys Ala Ser Pro
 1 5 10 15
 Leu Pro Ala Leu Cys Ser Ala Pro Met Lys Ala Pro Arg Leu Pro Ile
 20 25 30
 Ala Ile Gln Gln Ala Val Met Arg Ser Leu Arg Glu Lys Leu Ala Gln
 35 40 45
 Ala Asn Leu Lys Leu Gly Arg Asn Tyr Pro Glu Pro Lys Leu Val Tyr
 50 55 60
 Gln Gln Arg Gly Thr Ala Ala Gly Thr Ala Trp Leu Glu Ser Tyr Glu
 65 70 75 80
 Ile Arg Leu Asn Pro Val Leu Met Met Glu Asn Gln Gln Ala Phe Ile
 85 90 95
 Glu Glu Val Val Pro His Glu Leu Ala His Leu Leu Val Trp Lys His
 100 105 110
 Phe Gly Arg Val Ala Pro His Gly Lys Glu Trp Lys Trp Met Met Glu
 115 120 125
 Ala Val Leu Gly Val Pro Ala Arg Arg Thr His Gln Phe Glu Leu Glu
 130 135 140
 Ser Val Arg Arg Asn Thr Phe Pro Tyr Arg Cys Gln Cys Gln Gln His
 145 150 155 160
 Gln Leu Thr Val Arg Arg His Asn Arg Val Val Arg Gly Glu Ala Thr
 165 170 175
 Tyr Arg Cys Val Lys Cys Gly Glu Pro Leu Val Ala Glu
 180 185 190

<210> 9886
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 9886
 Asn Arg Ser Gly Ile Pro Asp Leu Asp His Arg Asn Ala Asp Gly Arg
 1 5 10 15
 Tyr Arg Lys Thr Phe Thr Glu Ile Thr Cys Asp Ser Ala Cys Val Tyr
 20 25 30
 Pro His Thr Gly Arg Cys Arg Phe Leu Asn Gln Glu Thr Val Pro Leu
 35 40 45

Thr Met Asn Leu Gln His His Phe Leu Ile Ala Met Pro Ala Leu Gln
 50 55 60
 Asp Pro Ile Phe Arg Arg Ala Val Val Tyr Ile Cys Glu Tyr Asn Glu
 65 70 75 80
 Asp Gly Ala Met Gly Ile Ile Ile Asn Lys Pro Leu Glu Asn Leu Gln
 85 90 95
 Val Glu Gly Ile Leu Asp Lys Leu Lys Ile Pro Ala Glu Ala Arg Leu
 100 105 110
 Pro Glu Ile Arg Leu Asp Lys Pro Val Met Leu Gly Gly Pro Leu Ala
 115 120 125
 Glu Asp Arg Gly Phe Ile Leu His Thr Pro Pro Val Phe Ser Ser Ser
 130 135 140
 Ile Arg Ile Ser Asp Asn Thr Val Val Thr Thr Ser Arg Asp Val Leu
 145 150 155 160
 Glu Thr Leu Gly Thr Ala Ser Gln Pro Ser Glu Val Leu Val Ala Leu
 165 170 175
 Gly Tyr Ala Ser Trp Glu Lys Gly Gln Leu Glu Gln Glu Ile Leu Asp
 180 185 190
 Asn Ala Trp Leu Thr Ala Pro Ala Asp Met Asn Ile Leu Phe Lys Thr
 195 200 205
 Pro Ile Ala Asp Arg Trp Arg Asp Ala Ala Lys Leu Ile Gly Ile Asp
 210 215 220
 Ile Leu Thr Met Pro Gly Val Ala Gly His Ala
 225 230 235

<210> 9887

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9887

Leu Ser Ala Thr Ala Ile Ser Arg Ala Gly Gly Ser Arg Gly Ala Pro
 1 5 10 15
 Val Thr Ala Ile Thr Cys Arg Cys Asn Gly Leu Ala Ser Ala Arg Gln
 20 25 30
 Arg Gly Met Ser Met Ala Arg Thr Ile Phe Cys Thr Phe Leu Gln Arg
 35 40 45
 Asp Ala Glu Gly Gln Asp Phe Gln Leu Tyr Pro Gly Asp Leu Gly Lys
 50 55 60
 Arg Ile Tyr Asn Glu Ile Ser Lys Glu Ala Trp Gly Gln Trp Gln Lys
 65 70 75 80
 Lys Gln Thr Met Leu Ile Asn Glu Lys Lys Leu Ser Met Met Asn Pro
 85 90 95
 Glu His Arg Lys Leu Leu Glu Gln Glu Met Val Asn Phe Leu Phe Glu
 100 105 110
 Gly Lys Asp Val His Ile Glu Gly Tyr Thr Pro Pro Glu Lys
 115 120 125

<210> 9888

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 9888

Thr His Lys Ile Thr Lys Gly Leu Ile Met Ser Thr Thr Asp Asp Ser
 1 5 10 15
 Phe Ser Val Thr His Asp Pro Ile Asp Ile Gln Arg Pro Ser Leu Lys
 20 25 30
 Glu Arg Trp Trp His Ile Met Asp Thr Trp Lys Ile Gly Ile Ile Pro
 35 40 45
 Leu Pro Leu Phe Val Leu Ala Gly Ala Leu Ile Ala Ile Asp Cys Leu


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<210> 9890
<211> 301
<212> PRT
<213> Enterobacter cloacae
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<400> 9890															
Thr	Gly	His	Gln	Leu	Gly	Gly	Ala	Glu	Met	Ser	Lys	Leu	Arg	Arg	Ser
1				5					10					15	
Met	Leu	Phe	Leu	Pro	Gly	Ala	Asn	Ala	Ala	Met	Leu	Ser	Thr	Ala	Phe
			20					25					30		
Ile	Tyr	Arg	Pro	Asp	Ser	Ile	Met	Phe	Asp	Leu	Glu	Asp	Ala	Val	Ala
		35					40					45			
Leu	Arg	Glu	Lys	Asp	Thr	Ala	Arg	Met	Leu	Val	Phe	His	Ala	Leu	Gln
	50					55					60				
His	Pro	Met	Tyr	Gln	Asp	Ile	Glu	Thr	Val	Val	Arg	Ile	Asn	Pro	Leu
65				70						75				80	
Ser	Thr	Pro	Phe	Gly	Leu	Leu	Asp	Leu	Glu	Ala	Ala	Val	Arg	Ala	Gly
			85						90					95	
Val	Asp	Val	Ile	Arg	Leu	Pro	Lys	Thr	Asp	Thr	Pro	Asp	Asp	Ile	Tyr

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<210> 9891
<211> 207
<212> PRT
<213> Enterobacter cloacae
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<210> 9892
<211> 257
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<212> PRT

<213> Enterobacter cloacae

<400> 9892

Leu	Trp	Ile	Met	Pro	Val	Ser	Arg	Thr	Phe	Ser	Gln	Ala	Asp	Asn	Ser
1				5					10					15	
Phe	Met	Lys	Asn	Asp	Val	Ile	Ser	Pro	Glu	Phe	Asp	Glu	Asn	Gly	Arg
			20					25					30		
Pro	Leu	Arg	Arg	Ile	Arg	Ser	Phe	Val	Arg	Arg	Gln	Gly	Arg	Leu	Thr
			35				40					45			
Lys	Gly	Gln	Gln	His	Ala	Leu	Asp	Asn	Tyr	Trp	Pro	Val	Met	Gly	Val
	50					55					60				
Glu	Phe	Ser	Glu	Gln	Pro	Leu	Asp	Phe	Thr	Asp	Leu	Phe	Gly	Arg	Asp
65					70					75					80
Ala	Pro	Val	Thr	Leu	Glu	Ile	Gly	Phe	Gly	Met	Gly	Thr	Ser	Leu	Val
				85					90					95	
Thr	Met	Ala	Lys	Ala	Arg	Pro	Glu	Gln	Asn	Phe	Leu	Gly	Ile	Glu	Val
			100						105					110	
His	Ser	Pro	Gly	Val	Gly	Ala	Cys	Leu	Ala	Thr	Ala	His	Glu	Glu	Gly
		115					120					125			
Val	Glu	Asn	Leu	Arg	Val	Met	Cys	His	Asp	Ala	Val	Glu	Val	Leu	His
		130					135				140				
Lys	Met	Ile	Pro	Asp	Asn	Ser	Leu	Asn	Met	Val	Gln	Leu	Phe	Phe	Pro
145					150					155					160
Asp	Pro	Trp	His	Lys	Ala	Arg	His	Asn	Lys	Arg	Arg	Ile	Val	Gln	Ala
				165					170					175	
Pro	Phe	Ala	Glu	Leu	Val	Lys	Ser	Lys	Leu	Lys	Leu	Gly	Gly	Val	Phe
			180					185					190		
His	Met	Ala	Thr	Asp	Trp	Glu	Pro	Tyr	Ala	Glu	His	Met	Leu	Glu	Val
		195					200					205			
Met	Ser	Ser	Leu	Asp	Gly	Tyr	Lys	Asn	Gln	Ser	Glu	Ser	Asn	Asp	Tyr
		210				215					220				
Val	Pro	Arg	Pro	Asp	Ser	Arg	Pro	Val	Thr	Lys	Phe	Glu	Gln	Arg	Gly
225					230					235					240
His	Arg	Leu	Gly	His	Gly	Val	Trp	Asp	Leu	Met	Phe	Glu	Arg	Val	Lys
				245					250					255	

<210> 9893

<211> 666

<212> PRT

<213> Enterobacter cloacae

<400> 9893

Tyr	Lys	Glu	Leu	Arg	Phe	Ala	Met	Ser	Asp	Asp	Met	Ser	Ser	Leu	Ser
1				5					10					15	
Pro	Ser	Ser	Ala	Gly	Glu	Gln	Gly	Val	Leu	Arg	Ser	Met	Gln	Glu	Val
			20					25					30		
Ala	Met	Ser	Ser	Gln	Glu	Ala	Ser	Lys	Met	Leu	Arg	Thr	Tyr	Asn	Ile
			35				40					45			
Ala	Trp	Trp	Gly	Asn	Asn	Tyr	Tyr	Asp	Val	Asn	Glu	Leu	Gly	His	Ile
	50					55					60				
Ser	Val	Cys	Pro	Asp	Pro	Asp	Val	Pro	Glu	Ala	Arg	Val	Asp	Leu	Ala
65					70					75					80
Lys	Leu	Val	Lys	Thr	Arg	Glu	Ala	Gln	Gly	Gln	Arg	Leu	Pro	Ala	Leu
				85					90					95	
Phe	Cys	Phe	Pro	Gln	Ile	Leu	Gln	His	Arg	Leu	Arg	Ser	Ile	Asn	Ala
			100					105					110		
Ala	Phe	Lys	Arg	Ala	Arg	Glu	Ser	Tyr	Gly	Tyr	Asn	Gly	Asp	Tyr	Phe
		115					120					125			

Leu	Val	Tyr	Pro	Ile	Lys	Val	Asn	Gln	His	Arg	Arg	Val	Ile	Glu	Ser
130						135					140				
Leu	Ile	His	Ser	Gly	Glu	Pro	Leu	Gly	Leu	Glu	Ala	Gly	Ser	Lys	Ala
145					150					155					160
Glu	Leu	Met	Ala	Val	Leu	Ala	His	Ala	Gly	Met	Thr	Arg	Ser	Val	Ile
				165					170						175
Val	Cys	Asn	Gly	Tyr	Lys	Asp	Arg	Glu	Tyr	Ile	Arg	Leu	Ala	Leu	Ile
			180					185					190		
Gly	Glu	Lys	Met	Gly	His	Lys	Val	Tyr	Leu	Val	Ile	Glu	Lys	Met	Thr
		195					200					205			
Glu	Ile	Ala	Ile	Val	Leu	Glu	Glu	Ala	Glu	Arg	Leu	Asn	Val	Ile	Pro
		210				215					220				
Arg	Leu	Gly	Val	Arg	Ala	Arg	Leu	Ala	Ser	Gln	Gly	Ser	Gly	Lys	Trp
225					230					235					240
Gln	Ser	Ser	Gly	Gly	Glu	Lys	Ser	Lys	Phe	Gly	Leu	Ala	Ala	Asn	Gln
			245						250						255
Val	Leu	Gln	Leu	Val	Glu	Ile	Leu	Arg	Glu	Arg	Gly	Arg	Leu	Asp	Ser
			260					265						270	
Ile	Gln	Leu	Leu	His	Phe	His	Leu	Gly	Ser	Gln	Met	Ala	Asn	Ile	Arg
		275					280					285			
Asp	Ile	Ala	Thr	Gly	Val	Arg	Glu	Ser	Ala	Arg	Phe	Tyr	Val	Glu	Leu
		290				295					300				
His	Lys	Leu	Gly	Val	Asn	Ile	Gln	Cys	Phe	Asp	Val	Gly	Gly	Gly	Leu
305					310					315					320
Gly	Val	Asp	Tyr	Glu	Gly	Thr	Arg	Ser	Gln	Ser	Asp	Cys	Ser	Val	Asn
			325						330					335	
Tyr	Gly	Leu	Asn	Glu	Tyr	Ala	Asn	Asn	Ile	Ile	Trp	Ala	Ile	Gly	Asp
			340				345						350		
Ala	Cys	Glu	Glu	His	Gly	Leu	Pro	His	Pro	Thr	Val	Ile	Thr	Glu	Ser
		355					360					365			
Gly	Arg	Ala	Val	Thr	Ala	His	His	Thr	Val	Leu	Val	Ser	Asn	Ile	Ile
		370				375					380				
Gly	Val	Glu	Arg	Ser	Glu	Ile	Thr	Glu	Ala	Thr	Pro	Pro	Ala	Asp	Asp
385					390					395					400
Ala	Pro	Arg	Ser	Leu	Gln	Ser	Met	Trp	Glu	Thr	Trp	Gln	Glu	Met	His
			405						410					415	
Glu	Pro	Gly	Thr	Arg	Arg	Ser	Leu	Arg	Glu	Trp	Leu	His	Asp	Ser	Gln
			420					425					430		
Met	Asp	Leu	His	Asp	Ile	His	Val	Gly	Tyr	Ser	Ser	Gly	Thr	Phe	Ser
		435					440					445			
Leu	Gln	Glu	Arg	Ala	Trp	Ala	Glu	Gln	Leu	Tyr	Leu	Asn	Met	Cys	His
		450				455					460				
Glu	Val	Gln	Lys	Gln	Leu	Asp	Pro	Ser	Asn	Arg	Ala	His	Arg	Pro	Ile
465					470					475					480
Ile	Asp	Glu	Leu	Gln	Glu	Arg	Met	Ala	Asp	Lys	Met	Tyr	Val	Asn	Phe
			485						490					495	
Ser	Leu	Phe	Gln	Ser	Met	Pro	Asp	Ala	Trp	Gly	Ile	Asp	Gln	Leu	Phe
			500					505					510		
Pro	Val	Leu	Pro	Leu	Glu	Gly	Leu	Asn	His	Ala	Pro	Glu	Arg	Arg	Ala
		515					520					525			
Val	Leu	Leu	Asp	Ile	Thr	Cys	Asp	Ser	Asp	Gly	Ala	Ile	Asp	His	Tyr
		530				535					540				
Val	Asp	Gly	Asp	Gly	Ile	Ala	Thr	Thr	Met	Pro	Met	Pro	Glu	Tyr	Asp
545					550					555					560
Pro	Glu	Asn	Pro	Pro	Met	Leu	Gly	Phe	Phe	Met	Val	Gly	Ala	Tyr	Gln
			565						570					575	
Glu	Ile	Leu	Gly	Asn	Met	His	Asn	Leu	Phe	Gly	Asp	Thr	Glu	Ala	Val
			580					585					590		
Asp	Val	Phe	Val	Phe	Pro	Asp	Gly	Ser	Val	Glu	Val	Glu	Leu	Ser	Asp
		595					600					605			
Glu	Gly	Asp	Thr	Val	Ala	Asp	Met	Leu	Glu	Tyr	Val	Gln	Leu	Asp	Pro

610		615		620
Lys Lys Leu Leu Thr Gln Phe Arg Asp Gln Val Lys Asn Thr Gly Leu				
625		630		635
Asp Asp Ala Leu Gln Gln Gln Phe Leu Glu Glu Phe Glu Ala Gly Leu				
	645		650	655
Tyr Gly Tyr Thr Tyr Leu Glu Asp Glu				
	660		665	

<210> 9894

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 9894

Ser Ile Asn Lys Phe Val Thr Leu Ser Leu Asp Glu Thr Phe Ile Ala		
1	5	10
Phe Ile Leu Thr Val Leu Asn Lys Lys Gln Ser Phe Ile Tyr Glu Thr		
	20	25
Lys Ala Trp Arg Ile Val Met Ser Trp Ile Gly Val Cys Asp Ala Glu		
	35	40
Gln Val Gln Glu Asp Phe Pro Phe Ser Gly Asn Val Asp Gly Lys Glu		
	50	55
Ile Gly Val Tyr Leu Ile Asp Gly Glu Tyr Tyr Ala Leu Glu Asp Val		
65	70	75
Cys Pro His Ala Tyr Ala Leu Leu Ser Gln Gly Phe Val Glu Asp Gly		
	85	90
Lys Val Glu Cys Pro Leu His Glu Ala Val Phe Asp Val Lys Thr Gly		
	100	105
Gln Cys Leu His Gly Pro Gly Gly Arg Asn Leu Asn Arg Tyr Pro Val		
	115	120
Arg Val Phe Glu Asn Gln Ile Gln Ile Thr Phe Val Glu Glu Thr Val		
	130	135
Ala		140
145		

<210> 9895

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9895

Thr Arg Cys Ala Cys Thr Thr Ser Arg Ala Ser Arg Gly Ala Thr Pro		
1	5	10
Ala Ser Gly His Ser Tyr Arg Leu Thr Ala Thr Glu Gly Asn Ala Met		
	20	25
Thr Thr Thr Val Gln His Tyr Leu Asp Lys Gly Leu Arg Gly Leu Trp		
	35	40
Tyr Pro Val Leu Ala Ser Trp Glu Val Gln Ser Ala Pro Val Gly Ile		
	50	55
Thr Arg Leu Gly Glu Gln Ile Val Val Trp Arg Asn Lys Asp Gly Gln		
65	70	75
Val Gln Ala Leu Glu Asp Arg Cys Pro His Arg Gly Ala Arg Leu Ser		
	85	90
Met Gly Trp Asn Leu Gly Asp Arg Ile Ala Cys Trp Tyr His Gly Val		
	100	105
Glu Val Ala Gly Asn Gly Glu Val Lys Asp Val Pro Ala Val Asp Lys		
	115	120
Cys Pro Leu Val Gly Gln Gln Cys Val Arg Ser Tyr Ser Val Gln Glu		
	130	135
Ala His Gly Ala Ile Phe Leu Trp Phe Gly Val Thr Ala Asp Gln Gln		
145	150	155
		160

Pro Asp Glu Leu Thr Phe Pro Asp Glu Leu Ala Asp Thr Asp Ser Phe
 165 170 175
 Ser Asn Phe Leu Cys Thr Ala Ala Trp Lys Cys Asn Tyr Gln Tyr Ala
 180 185 190
 Leu Glu Asn Val Met Asp Pro Met His Gly Thr Tyr Leu His Ser Ser
 195 200 205
 Ser His Ser Met Ala Glu Gly Asp Arg Lys Ala Asp Met Val Leu Gln
 210 215 220
 Pro Thr Lys Thr Gly Phe Ile Phe Glu Lys Lys Gly Gln Ser Gly Val
 225 230 235 240
 Asn Phe Asp Trp Val Glu Leu Gly Asn Ser Gly Thr Cys Trp Met Arg
 245 250 255
 Leu Ser Ile Pro Tyr Lys Lys Arg Phe Gly Pro Gly Gly His Phe Phe
 260 265 270
 Ile Val Gly Met Val Val Pro Glu Asp Asn Asp Asn Cys Arg Val Phe
 275 280 285
 Phe Trp Arg Ile Arg Arg Val Gln Gly Trp Gln Arg Asp Met Trp Arg
 290 295 300
 Phe Met Tyr Arg Asn Arg Leu Glu Lys Leu His Trp Glu Val Leu Glu
 305 310 315 320
 Gln Asp Arg Val Val Leu Glu Ser Leu Ala Pro Asn Ala Arg Asp His
 325 330 335
 Glu Tyr Leu Tyr Gln His Asp Val Gly Leu Ser Arg Leu Arg Arg Met
 340 345 350
 Met Gln Lys Ala Ala Lys Glu Gln Leu Ala Met Arg Glu Ala Gln Gln
 355 360 365
 Gly Ala Ala
 370

<210> 9896

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9896

Asp Val Thr Glu Glu Ser Val Met Thr Asp Ser Ile Val Thr Asn Lys
 1 5 10 15
 Thr Gly Ile Lys Pro Asp His Leu Thr Met Glu Glu Trp Val Glu Ser
 20 25 30
 Arg Ile Ala Arg Phe Glu Gly Arg Lys Tyr Asp Trp Asn Ala Leu Lys
 35 40 45
 Phe Gln Ala Asp Phe Asp Pro Lys Tyr Arg Arg Ala Gln Met Arg Tyr
 50 55 60
 Ile Gly Thr Gly Ala Thr Gly Val Ala Asn Asp Thr Asn Thr Val Gln
 65 70 75 80
 Ala Asp His Phe Thr Phe Ser Thr Met Val Leu Pro Ser Lys Cys Glu
 85 90 95
 Gly Pro Leu His Leu His Asp Asp Val Glu Glu Val Phe Phe Met Leu
 100 105 110
 Lys Gly Gln Ile Thr Leu Met Ile Gln Asp Gly Asp Asn Tyr Thr Glu
 115 120 125
 Thr Val Leu Arg Glu Arg Asp Leu Ile Ser Val Pro Pro Gly Ile Tyr
 130 135 140
 Arg Gly Leu Phe Asn His Gly Glu Glu Glu Ala Leu Met Cys Val Met
 145 150 155 160
 Leu Gly Thr Asn Lys Pro Glu Ile Pro Thr Tyr Pro Ser Asp His Pro
 165 170 175
 Leu Ser Lys Val Lys Arg Asn
 180

<210> 9897

<211> 260
 <212> PRT
 <213> Enterobacter cloacae

<400> 9897

Gly	Gly	Met	Met	Thr	Gly	Phe	Arg	Glu	Gln	Gly	Ser	Gly	Ile	Pro	Leu
1				5					10					15	
Met	Leu	Leu	His	Gly	Ile	Ser	Ser	Gly	Ala	Ala	Ser	Trp	His	Lys	Gln
			20					25					30		
Met	Ala	Leu	Asn	Gly	Phe	Arg	Val	Leu	Ala	Trp	Asp	Met	Pro	Gly	Tyr
		35					40				45				
Gly	Glu	Ser	Pro	Met	Leu	Ala	Val	Ala	Arg	Ala	Asn	Ala	Gly	Asp	Tyr
	50					55					60				
Ala	Asp	Ala	Leu	Ala	Ala	Met	Leu	Asp	Arg	Ala	Gly	Val	Trp	Gln	Ala
65					70					75					80
Val	Leu	Val	Gly	His	Ser	Leu	Gly	Ala	Leu	Val	Ala	Ser	Ala	Phe	Ala
				85					90					95	
Ala	Lys	Phe	Pro	Asp	Arg	Val	Ile	His	Leu	Val	Leu	Ala	Asp	Ala	Ala
			100					105					110		
Gln	Gly	Tyr	Gly	Asn	Ala	Ala	Pro	Glu	Gln	Arg	Glu	Gln	Val	Trp	Arg
	115						120					125			
Asn	Arg	Glu	Gln	Gln	Met	Ala	Leu	Gly	Gly	Glu	Ile	Leu	Ala	Gln	Thr
	130					135					140				
Arg	Ala	Pro	Lys	Leu	Leu	Arg	Pro	Gly	Ala	Arg	Ala	Glu	Asp	Ile	Ala
145					150					155					160
Thr	Val	Ala	Ala	Gly	Met	Arg	Val	Leu	Arg	Pro	Glu	Gly	Tyr	Leu	Ala
				165					170					175	
Ala	Ser	Trp	Met	Leu	Ala	His	Asp	Asp	Ile	His	Gly	Trp	Leu	Lys	Arg
			180					185					190		
Tyr	Ser	Gly	Ser	Phe	Glu	Val	Trp	Cys	Gly	Glu	Gln	Asp	Ala	Ile	Thr
	195						200					205			
Gln	Pro	Glu	Leu	Val	Gln	Gly	Leu	Ala	Leu	Arg	Tyr	Gly	Met	Pro	Phe
	210					215					220				
Ile	Ala	Ile	Pro	Gln	Ala	Gly	His	Ala	Ser	Tyr	Leu	Asp	Asn	Asp	Ala
225					230					235					240
Phe	Phe	Asn	Gln	Gln	Leu	Leu	Arg	Ile	Asn	Glu	Glu	Val	Arg	Asp	Glu
				245					250					255	
Cys	Thr	Asn													

260

<210> 9898
 <211> 395
 <212> PRT
 <213> Enterobacter cloacae

<400> 9898

Glu	Ser	Thr	Arg	Gly	Phe	Thr	Met	Ser	Val	Ile	Lys	Met	Thr	Asp	Leu
1				5					10					15	
Asp	Leu	Ala	Gly	Lys	Arg	Val	Phe	Ile	Arg	Ala	Asp	Leu	Asn	Val	Pro
			20					25					30		
Val	Lys	Asp	Gly	Lys	Val	Thr	Ser	Asp	Ala	Arg	Ile	Arg	Ala	Ser	Leu
		35					40				45				
Pro	Thr	Ile	Glu	Leu	Ala	Leu	Lys	Gln	Gly	Ala	Lys	Val	Met	Val	Thr
	50					55					60				
Ser	His	Leu	Gly	Arg	Pro	Thr	Glu	Gly	Glu	Tyr	Asn	Glu	Glu	Phe	Ser
65					70					75					80
Leu	Leu	Pro	Val	Val	Asn	Tyr	Leu	Lys	Asp	Lys	Leu	Ser	Ser	Pro	Val
				85					90					95	
Arg	Leu	Val	Lys	Asp	Tyr	Leu	Asp	Gly	Val	Glu	Val	Ala	Glu	Gly	Glu
			100					105					110		
Leu	Val	Val	Leu	Glu	Asn	Val	Arg	Phe	Asn	Lys	Gly	Glu	Lys	Lys	Asp

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<210> 9899
<211> 285
<212> PRT
<213> Enterobacter cloacae
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Met	Glu	Gln	Leu	Asp	Val	Val	Asp	Ser	Ile	Asn	Asn	Ala	Gly	Asn	Trp
1				5					10					15	
Leu	Val	Arg	Asn	Gln	Ala	Leu	Leu	Leu	Ser	Tyr	Ala	Val	Asn	Ile	Val
			20					25					30		
Ala	Ala	Ile	Ala	Ile	Ile	Ile	Val	Gly	Met	Ile	Val	Ala	Arg	Ile	Val
			35				40					45			
Ser	Asn	Ala	Val	Asn	Arg	Val	Met	Val	Ala	Arg	His	Ile	Asp	Ala	Thr
	50					55					60				
Val	Ala	Asp	Phe	Leu	Ser	Ala	Leu	Val	Arg	Tyr	Gly	Ile	Ile	Ala	Phe
65				70					75						80
Thr	Leu	Ile	Ala	Ala	Leu	Gly	Arg	Val	Gly	Val	Gln	Thr	Ala	Ser	Val
				85					90					95	
Ile	Ala	Val	Leu	Gly	Ala	Ala	Gly	Leu	Ala	Ile	Gly	Leu	Ala	Leu	Gln
			100					105					110		
Gly	Ser	Leu	Ser	Asn	Leu	Ala	Ala	Gly	Val	Leu	Leu	Val	Thr	Phe	Arg
			115				120					125			
Pro	Phe	Arg	Ser	Gly	Glu	Tyr	Val	Asp	Leu	Gly	Gly	Ile	Ala	Gly	Thr
	130					135					140				
Val	Leu	Gln	Val	Gln	Ile	Phe	Ser	Thr	Thr	Leu	Arg	Thr	Val	Asp	Gly

145					150				155				160
Arg	Ile	Val	Val	Val	Pro	Asn	Gly	Lys	Ile	Ile	Ala	Gly	Asn
				165					170				Ile
Asn	Phe	Ser	Arg	Glu	Pro	Val	Arg	Arg	Asn	Glu	Leu	Ile	Ile
			180					185				190	Ser
Ala	Tyr	Asp	Ser	Asp	Ile	Asp	Gln	Val	Lys	Ser	Leu	Ile	Thr
		195					200					205	Asn
Ile	Ala	Ser	Asp	Asp	Arg	Ile	Leu	Lys	Asp	Arg	Glu	Gln	Thr
	210					215					220		Val
Leu	Asn	Glu	Leu	Gly	Ala	Ser	Ser	Ile	Asn	Phe	Val	Val	Arg
225				230						235			Ile
Ser	Lys	Ser	Ser	Asp	Leu	Gln	Asn	Val	Tyr	Trp	Asp	Val	Leu
				245					250				Glu
Ile	Lys	Arg	Asp	Phe	Asp	Ala	Asn	Gly	Ile	Ser	Phe	Pro	Tyr
			260					265					Pro
Met	Asp	Val	Asn	Val	Lys	Lys	Val	Lys	Glu	Ala	Glu		Gln
		275					280					285	

<210> 9900

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9900

Ala	Leu	Leu	Thr	Gly	His	Ser	Ser	Gln	His	Gly	Gly	Met	Thr	Val	Lys
1				5				10						15	
Phe	Lys	Val	Met	Ala	Leu	Ala	Ala	Leu	Val	Ser	Leu	Gly	Ala	Val	Ser
			20					25					30		
Val	Gln	Ala	Asn	Glu	Leu	Pro	Asn	Gly	Pro	His	Ile	Val	Thr	Ser	Gly
		35					40					45			
Thr	Ala	Ser	Val	Asp	Ala	Val	Pro	Asp	Val	Ala	Thr	Leu	Ala	Ile	Glu
		50				55					60				
Val	Asn	Val	Ala	Ala	Lys	Asp	Ala	Ala	Ser	Ala	Lys	Lys	Gln	Ala	Asp
65					70					75				80	
Asp	Arg	Val	Ala	Gln	Tyr	Leu	Ser	Phe	Leu	Glu	Gln	Asn	Gly	Val	Ala
				85					90					95	
Lys	Lys	Asp	Ile	Ser	Ser	Ala	Asn	Leu	Arg	Thr	Gln	Pro	Asp	Tyr	Asp
		100						105					110		
Tyr	Gln	Asn	Gly	Lys	Ser	Ile	Leu	Lys	Gly	Tyr	Arg	Ala	Val	Arg	Thr
		115					120					125			
Val	Glu	Val	Thr	Val	Arg	Gln	Leu	Asp	Lys	Leu	Asn	Gly	Leu	Leu	Asp
		130				135						140			
Gly	Ala	Leu	Lys	Ala	Gly	Leu	Asn	Glu	Ile	Arg	Ser	Val	Ser	Leu	Gly
145					150					155				160	
Val	Ala	Gln	Pro	Glu	Lys	Tyr	Lys	Asp	Glu	Ala	Arg	Lys	Ala	Ala	Ile
				165					170					175	
Asp	Asp	Ala	Ile	His	Gln	Ala	Gln	Gln	Leu	Ala	Ser	Gly	Phe	Lys	Ser
			180					185					190		
Lys	Leu	Gly	Pro	Val	Tyr	Ser	Val	Arg	Tyr	His	Val	Ser	Asn	Tyr	Gln
		195					200					205			
Pro	Ser	Pro	Met	Val	Arg	Met	Met	Lys	Ala	Asp	Ala	Ala	Pro	Val	Ser
		210				215					220				
Ala	Gln	Glu	Thr	Tyr	Glu	Gln	Pro	Thr	Ile	Gln	Phe	Asp	Asp	Gln	Val
225					230					235				240	
Asp	Val	Val	Phe	Gln	Leu	Glu	Pro	Thr	Gln	Thr	Gln	Gln	Thr	Glu	Ala
				245					250					255	
Ala	Lys	Ala	Gln												
			260												

<210> 9901

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 9901

Arg	Met	Arg	Met	Ser	Ile	Gln	Asn	Glu	Met	Pro	Gly	Tyr	Lys	Asp	Leu
1				5					10					15	
Asn	Gln	Leu	Leu	Asn	Gln	Gln	Gly	Val	Gly	Leu	Thr	Pro	Ala	Glu	Met
		20						25					30		
His	Gly	Leu	Ile	Ser	Gly	Ile	Leu	Cys	Gly	Gly	Asn	Ser	Asp	Ser	Ser
		35					40					45			
Trp	Gln	Pro	Leu	Ile	His	Asp	Leu	Thr	Asn	Glu	Arg	Leu	Ala	Phe	Gly
	50					55					60				
His	Glu	Leu	Ala	Glu	Ala	Leu	Arg	Lys	Met	His	Ala	Ala	Thr	Ser	Asp
65					70					75					80
Ser	Leu	Glu	Asp	Asp	Gly	Phe	Leu	Phe	Gln	Leu	Tyr	Leu	Pro	Glu	Gly
			85						90					95	
Asp	Asp	Val	Ser	Val	Phe	Asp	Arg	Ala	Asp	Ala	Leu	Ala	Gly	Trp	Val
		100						105					110		
Asn	His	Tyr	Leu	Leu	Gly	Leu	Gly	Val	Thr	Gln	Pro	Lys	Leu	Glu	
		115					120					125			

<210> 9902

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9902

Ser	Ser	Gly	Thr	Leu	Ser	Pro	Arg	Arg	Trp	Ala	Ser	Leu	Thr	Ala	Ser
1				5					10					15	
Ser	Ala	Arg	Ser	Arg	Ser	Ala	Ile	Ser	Pro	Ala	Ser	Thr	Thr	Arg	Arg
		20						25					30		
Cys	Thr	Thr	Cys	Trp	Pro	Arg	Ile	Leu	Thr	Trp	Trp	Arg	Cys	Arg	Ala
		35					40					45			
Ser	Arg	Pro	Pro	Ala	Thr	Pro	Phe	Arg	Pro	Arg	Lys	Cys	Ala	Val	Tyr
	50					55				60					
Ser	Arg	His	Ser	Ser	Phe	Pro	Gly	Ser	Gly	Arg	Leu	Ser	Arg	Thr	Pro
65					70					75					80
Pro	Ser	Arg	Thr	Ser	Lys	His	Ile	Ile	Val	Arg	Val	Arg	Lys	Ser	His
				85					90				95		
Asn	Tyr	Gln	Glu	Phe	Ile	Met	Asn	Ile	Val	Arg	Glu	Ala	Leu	Ala	Gly
		100					105						110		
Thr	Gln	Glu	Ser	Ser	Asp	Leu	Met	Val	Lys	Ile	Ala	Pro	Ala	His	Gly
		115					120					125			
Glu	Leu	Glu	Ile	Val	Ile	His	Ser	Glu	Val	Ile	Lys	Gln	Phe	Gly	Glu
	130					135					140				
Gln	Ile	Arg	Gln	Val	Val	Asn	Asp	Thr	Leu	Arg	Ala	Met	Asn	Val	His
145					150					155					160
Gln	Gly	Leu	Ile	Ile	Glu	Asp	Lys	Gly	Ala	Leu	Asp	Cys	Val	Ile	
			165					170					175		
Arg	Ala	Arg	Leu	Gln	Ser	Ala	Leu	Leu	Arg	Ala	Ala	Asn	Glu	Gln	Ala
			180				185						190		
Ile	Asn	Trp	Gly	Ala	Leu	Lys									
		195					200								

<210> 9903

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 9903

Leu	Arg	Arg	Gln	Lys	Arg	Ala	Ser	Val	Thr	Ala	Trp	Ala	Trp	Cys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10					15
Ser	Thr	Ala	Lys	Trp	Trp	Met	His	Arg	Leu	Leu	Thr	Thr	Arg	Trp
			20					25					30	
Cys	Trp	Ser	Ala	Arg	Arg	Pro	Pro	Ala	Cys	Val	Gly	Lys	Asp	Ile
		35					40					45		
Met	Asn	Gln	Thr	Glu	Leu	Leu	His	Met	Asn	Phe	Pro	His	Leu	Arg
	50					55					60			
Leu	Lys	Pro	Phe	Asp	Thr	Ala	His	Ser	Ala	Thr	Pro	Trp	Leu	Ala
65					70					75				80
Ser	Glu	Ala	Lys	His	Ser	Arg	Lys	Leu	Cys	Ala	Ser	Ile	Glu	Glu
				85					90					95
Val	Lys	Arg	Cys	Gly	Leu	Gln	Asp	Gly	Met	Thr	Ile	Ser	Phe	His
			100					105					110	
Ala	Phe	Arg	Glu	Gly	Asp	Arg	Val	Ile	Asn	Thr	Val	Val	Ala	Leu
		115					120					125		
Ala	Arg	Met	Gly	Phe	Lys	Asn	Leu	Thr	Leu	Ala	Ser	Ser	Ser	Leu
		130				135					140			
Thr	Cys	Asn	Asp	Ala	Leu	Ile	Glu	His	Ile	Glu	Ser	Gly	Val	Ile
145					150					155				160
Arg	Ile	Tyr	Thr	Ser	Gly	Met	Arg	Gly	Arg	Leu	Ala	Asp	Ala	Ile
				165					170					175
His	Gly	Leu	Met	Glu	Glu	Pro	Val	Gln	Ile	His	Ser	His	Gly	Arg
			180					185					190	
Val	Lys	Leu	Leu	Gln	Asp	Gly	Glu	Leu	Asn	Ile	Asp	Val	Ala	Phe
		195					200					205		
Gly	Val	Pro	Cys	Ser	Asp	Glu	Phe	Gly	Asn	Ala	Asn	Gly	Thr	His
	210					215					220			
Lys	Ser	Cys	Cys	Gly	Ser	Leu	Gly	Tyr	Ala	Met	Val	Asp	Ala	Gln
225					230					235				240
Ala	Arg	Lys	Val	Val	Leu	Leu	Thr	Glu	Ala	Leu	Val	Pro	Phe	Pro
			245						250					255
Met	Pro	Ala	Ser	Leu	Val	Gln	Asp	Gln	Val	Asp	Tyr	Ile	Val	Gln
		260						265					270	
Glu	Ser	Val	Gly	Asp	Pro	Ala	Lys	Ile	Ser	Val	Gly	Ala	Ala	Arg
		275					280					285		
Thr	Ser	Asn	Pro	Arg	Glu	Leu	Met	Ile	Ala	Arg	Tyr	Ala	Ala	Asp
	290					295					300			
Ile	Glu	His	Ser	Gly	Tyr	Phe	Lys	Pro	Gly	Phe	Ser	Met	Gln	Thr
305					310					315				320
Ser	Gly	Ala	Ala	Ala	Thr	Ala	Cys	Thr	Arg	Phe	Met	Glu	Glu	Lys
			325						330					335
Glu	Arg	Ser	Gly	Val	Lys	Ala	Arg	Phe	Ala	Leu	Gly	Gly	Ile	Thr
			340					345					350	
Ser	Leu	Val	Asp	Leu	His	Glu	Lys	Gly	Leu	Ile	Glu	Lys	Leu	Leu
		355					360					365		
Thr	Gln	Cys	Phe	Asp	Gly	Gln	Ala	Ala	Ala	Ser	Leu	Ala	Arg	Asn
	370					375					380			
Asn	His	Val	Glu	Ile	Ser	Thr	Asn	Val	Tyr	Ala	Asn	Pro	Gly	Ser
385					390					395				400
Ala	Ala	Ser	Cys	Asp	Gln	Leu	Asp	Val	Val	Ile	Leu	Ser	Ala	Leu
			405						410					415
Ile	Asp	Val	Asp	Phe	Asn	Val	Asn	Val	Ile	Thr	Gly	Ser	Asp	Gly
			420					425					430	
Met	Arg	Gly	Ala	Ser	Gly	Gly	His	Cys	Asp	Val	Ala	Ala	Ala	Asn
		435					440					445		
Leu	Thr	Ile	Val	Val	Ala	Pro	Leu	Leu	Arg	Ser	Arg	Ile	Pro	Thr
		450				455					460			
Val	Lys	Arg	Val	Thr	Thr	Arg	Leu	Thr	Pro	Gly	Glu	Ser	Ile	Asp
465					470					475				480
Leu	Val	Thr	Asp	His	Gly	Ile	Ala	Val	Asn	Pro	Ala	Arg	Pro	Glu
				485					490					495

Arg Glu Arg Leu Met Glu Ala Gly Met Lys Val Val Asp Ile Asn Ala
 500 505 510
 Leu Tyr Glu Arg Ala Ile Ser Leu Thr Gly Val Pro Lys Pro Ile Glu
 515 520 525
 Phe Thr Asp Lys Ile Val Gly Val Ile Arg Tyr Arg Asp Gly Ser Val
 530 535 540
 Ile Asp Thr Val Arg Gln Val Lys Glu Glu Val
 545 550 555

<210> 9904

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9904

Ser Met Thr Gly Leu Leu Ala Thr Lys Pro Arg Pro Val Asp Val Pro
 1 5 10 15
 Ala Leu Ala Glu Ala Ala Leu Trp Gln Glu Leu Glu Leu Thr Pro Lys
 20 25 30
 Pro Gly Leu Val Asp Arg Leu Asn Asn Gly Ser His Arg Asp Met Asp
 35 40 45
 His Ala Leu Phe Val Arg Ser Ile Met Ala Ile Thr Pro Trp Phe Ala
 50 55 60
 Arg Phe Ala Glu Leu Gly Glu Ala His Ala Ala Lys Pro Ala Asp Arg
 65 70 75 80
 Gln Leu Arg Ile Leu Arg Pro Met Gly Met Ala Cys Glu Gln Ala Met
 85 90 95
 Tyr Ala Ala Thr Gly Gly Val Asn Thr His Lys Gly Gly Ile Phe Ala
 100 105 110
 Leu Gly Leu Leu Cys Phe Ala Ala Gly Arg Val Lys Asn Ile Ser Ala
 115 120 125
 Asp Ser Leu Cys Cys Glu Val Ser His Ile Cys Arg Gly Leu Val Ala
 130 135 140
 Arg Glu Leu Ala Gly Arg Ser Gly Gln Ala Thr Ala Gly Glu Arg Gln
 145 150 155 160
 Phe Gln His Tyr Gly Leu Thr Gly Ala Arg Gly Glu Ala Glu Ser Gly
 165 170 175
 Phe Ala Thr Val Arg Lys Ala Leu Gly Gln Trp Asn Gly Gln Leu Leu
 180 185 190
 His Asp Leu Leu Leu Arg Leu Met Ala Val Asn Gln Asp Ser Asn Leu
 195 200 205
 Val Ser Arg Gly Gly Ile Gln Gly Leu Arg Tyr Val Gln Gly Tyr Ala
 210 215 220
 Arg Glu Leu Leu Ala Asn Cys Trp Asp Arg Glu Ala Leu Leu Lys Met
 225 230 235 240
 Asp Lys Ala Leu Ile Glu Arg Asn Leu Ser Pro Gly Gly Ser Ala Asp
 245 250 255
 Leu Leu Ser Val Gly Trp Val Leu Ser Ala Ile Lys
 260 265

<210> 9905

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9905

Ser Met Asp Val Glu Glu Ile Val Ala Leu Ser Val Lys His Asn Val
 1 5 10 15
 Ser Asp Leu His Leu Cys Ser Asp Ser Pro Pro Arg Trp Arg Arg Ser
 20 25 30
 Gly Arg Leu Glu Pro Ala Pro Phe Pro Pro Pro Asp Val Glu Ala Leu

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<210> 9906
<211> 81
<212> PRT
<213> Enterobacter cloacae
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Phe 1	Tyr	Gln	Gly	Leu 5	Gln	Asp	Phe	Asp	Thr 10	Gly	Ser	Leu	Ser	Val 15	Asn
Arg	Tyr	Gly	Trp 20	Ile	Asn	Ile	Trp	Thr 25	Ser	Ile	Leu	Gly	His 30	Phe	Phe
Thr	Arg	Phe 35	Pro	Val	Phe	Phe	Asp 40	Ser	Pro	Leu	Ile	Ala 45	Leu	Lys	Thr
Leu	Leu 50	Glu	Ile	Phe	Pro	Asp 55	Asp	Ala	Gly	Asn 60	Leu	Arg	Ile	Phe	Val
Leu 65	Leu	Phe	Ser	Asp 70	Leu	Leu	Gly	Ile	Lys 75	Arg	Gly	Ala	Arg	Leu	Ile 80

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<210> 9907
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<400> 9907

Thr	Arg	Ala	Leu	Leu	Leu	Ile	Gln	Glu	Phe	Ser	Arg	Gly	Phe	Ala	Glu
1				5					10					15	
Pro	Cys	His	Thr	Glu	Phe	Gly	Tyr	Val	Phe	Tyr	Asn	Asp	Met	Asn	Lys
			20					25					30		
Lys	Pro	Val	Ala	Arg	Ser	Gly	Phe	Gln	His	Thr	Leu	Leu	Gly	Asn	Gly
		35					40					45			
Ala	Val	Asn	Gly	Leu	Leu	Ser	Pro	Tyr	Asn	Ala	Ala	Ile	Val	Val	Asn
		50				55					60				
Cys	Phe	Thr	Leu	Asn	Thr	Lys	Ser								
65					70										

<210> 9908

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 9908

Pro	Arg	His	Ala	Pro	Ser	Ala	Glu	Lys	Ala	Gly	Gly	Gly	Met	Thr	Ser
1				5					10					15	
Arg	Ile	Val	Ile	Ile	Gly	Gly	Gly	Gln	Ser	Gly	Gly	Trp	Ala	Ala	Lys
			20					25					30		
Thr	Leu	Arg	Asp	Glu	Gly	Phe	Asp	Gly	Glu	Ile	Cys	Val	Val	Ala	Glu
		35					40					45			
Glu	Glu	Trp	Asp	Phe	Tyr	Glu	Arg	Pro	Pro	Leu	Ser	Lys	Ala	Ser	Leu
		50				55					60				
Leu	Glu	Pro	Asp	Ala	Ala	Leu	Pro	Arg	Leu	Phe	Thr	Asp	Glu	Val	Gln
65				70					75						80
Gln	Ala	Leu	Asn	Leu	Thr	Trp	Tyr	Arg	Pro	Leu	Arg	Ala	Glu	Ser	Val
			85					90						95	
Asp	Arg	Val	Glu	Lys	Lys	Val	Leu	Leu	Ser	Asn	Gly	Glu	Gln	Leu	Ser
		100						105					110		
Tyr	Asn	Ile	Leu	Leu	Ile	Ala	Thr	Gly	Gly	Arg	Ala	Arg	Leu	Pro	Ser
		115					120					125			
Gln	Ala	Trp	Ala	Ser	His	Pro	Gln	Val	Tyr	Thr	Leu	Arg	His	Trp	Gln
	130					135					140				
Asp	Ala	Gln	Arg	Leu	Lys	Ser	Arg	Leu	Ser	Glu	Ser	His	Lys	Leu	Ala
145					150					155					160
Ile	Ile	Gly	Gly	Gly	Trp	Ile	Gly	Leu	Glu	Ile	Ala	Ala	Ser	Ala	Arg
			165					170						175	
Lys	Ser	Gly	Val	Ala	Val	Thr	Leu	Phe	Glu	Gln	Gln	Pro	Ala	Leu	Cys
			180					185					190		
Met	Arg	Ser	Val	Ser	Gly	Glu	Val	Ser	Gln	Arg	Leu	Glu	Ala	Ile	His
		195				200						205			
Arg	Glu	Gln	Gly	Val	Glu	Ile	Arg	Thr	Gly	Cys	Gly	Ala	Leu	Glu	Leu
	210					215						220			
Glu	Asp	Asp	Gly	Gly	Leu	Pro	Val	Val	His	Cys	Asp	Gly	Asn	Arg	Glu
225					230					235					240
Thr	Phe	Asp	Ala	Val	Val	Val	Gly	Ile	Gly	Val	Asp	Leu	Asn	Leu	Glu
			245						250					255	
Leu	Ala	Arg	Asp	Ala	Gly	Leu	Lys	Thr	Gly	Arg	Gly	Ile	Val	Val	Asp
			260					265					270		
Ala	Gln	Gly	Arg	Thr	Ser	Asp	Pro	Phe	Ile	Phe	Ala	Ala	Gly	Asp	Val
		275				280						285			
Ala	Gln	His	His	His	Tyr	Gly	Leu	Cys	Ile	Gln	Ser	Trp	Ala	Phe	Ala
		290				295					300				
Gln	Asn	Gln	Ala	Val	Ala	Thr	Ala	Lys	Ala	Met	Leu	Asn	Pro	Asp	Ala
305					310					315					320
Pro	Gly	Tyr	Asp	Asp	Ala	Pro	Trp	Leu	Trp	Ser	Asp	Gln	Tyr	Gln	His
				325					330					335	

Asn Ile Gln Ile Leu Gly Ile Pro Gln Ala Gly Cys Arg Thr Ile Leu
 340 345 350
 Arg Glu Glu Ala Leu Tyr Phe Ser Leu Asp Asp Asn Gly Arg Leu Thr
 355 360 365
 Gln Leu Val Ala Phe Asn Asp Ala Arg Thr Val Lys Leu Ala Lys Arg
 370 375 380
 Trp Met Ala Ala Gly Arg Asp Leu Ser Asp Val Pro Leu Ala Asp Pro
 385 390 395 400
 Thr Phe Ser Leu Met Ser Leu Arg
 405

<210> 9909

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9909

Ser Val Ile Pro Ala Val Leu Lys Ser Gly Ala Ala Ser Arg Met Pro
 1 5 10 15
 Ser Pro Ser Arg Ser Trp Phe Arg Val Trp Arg Cys Ala Thr Ala Cys
 20 25 30
 Arg Leu Ser Pro Phe Arg Arg Pro Gly Thr Pro Ala Ile Ser Ile Thr
 35 40 45
 Thr Arg Phe Ser Thr Asn Ser Phe Tyr Ala Leu Thr Lys Arg Cys Ala
 50 55 60
 Met Asn Ala Gln Ile Asp Gly Arg Val Ala Val Val Thr Gly Gly Ser
 65 70 75 80
 Ser Gly Ile Gly Phe Glu Thr Leu Arg Leu Leu Leu Gly Glu Gly Ala
 85 90 95
 Lys Val Ala Phe Cys Gly Arg Asp Glu Asp Arg Leu Ala Ser Ala His
 100 105 110
 Ala Thr Leu Gln Asn Glu Phe Pro His Gly Glu Ile Phe Ala Phe Arg
 115 120 125
 Cys Asp Val Leu Asn Ala Asp Glu Val Gln Ala Phe Ala Asp Ala Val
 130 135 140
 Gln Ala Arg Phe Gly Ala Ala Asp Met Leu Ile Asn Asn Ala Gly Gln
 145 150 155 160
 Gly Tyr Val Ala His Phe His Asp Thr Pro Arg Glu Ala Trp Leu His
 165 170 175
 Glu Ala Glu Leu Lys Leu Phe Gly Val Ile Asn Pro Val Gln Ala Phe
 180 185 190
 Gln Pro Leu Leu Glu Arg Ser Asp Ile Ala Ser Ile Thr Cys Val Asn
 195 200 205
 Ser Leu Leu Ala Leu Gln Pro Glu Glu His Met Ile Ala Thr Ser Ala
 210 215 220
 Ala Arg Ala Ala Leu Leu Asn Met Thr Leu Thr Leu Ser Lys Glu Leu
 225 230 235 240
 Val Gly Lys Gly Ile Arg Val Asn Ser Ile Leu Leu Gly Met Val Glu
 245 250 255
 Ser Gly Gln Trp Gln Arg Arg Phe Glu Ser Arg Ala Asp Lys Ser Gln
 260 265 270
 Ser Trp Pro Glu Trp Thr Ala Glu Ile Ala Arg Lys Arg Gly Ile Pro
 275 280 285
 Met Ala Arg Leu Gly Lys Pro Gln Glu Pro Ala Gln Ala Leu Leu Phe
 290 295 300
 Leu Ala Ser Pro Leu Ala Ser Phe Thr Thr Gly Ala Ala Leu Asp Val
 305 310 315 320
 Ser Gly Gly Phe Cys Arg His Leu
 325

<210> 9910

<400> 9910

<210> 9911

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9911

Gly 1	Val	Thr	Met	Asp 5	Asp	Leu	Lys	Ile	Phe 10	Ile	Gly	Gly	Gln	Trp 15	Arg
Arg	Gly	Gly	Gly 20	Asn	Pro	Met	Gln	Ser 25	His	Phe	Pro	Ala	Asp 30	Gly	Ser
Leu	Asn	Ala 35	Thr	Leu	Asn	Ala	Ala 40	Ser	Leu	Asp	Asp	Leu 45	Glu	Glu	Ala
Val	Ala 50	Ala	Gly	Glu	Arg	Ala 55	Trp	Arg	Asp	Pro	Ala 60	Trp	Arg	Asn	Ser
Leu 65	Pro	His	Met	Arg	Ala 70	Lys	Ile	Leu	His	Lys 75	Val	Ala	Asp	Leu 80	Ile
Glu	Ser	Arg	Val	Asp 85	Ala	Leu	Ala	Gln	Met 90	Gln	Ser	Arg	Asp 95	Asn	Gly
Lys	Pro	Leu	Ala 100	Glu	Ala	Arg	Gly	Leu 105	Val	Met	Ser	Ala	Ala 110	Gly	Thr
Ala	Arg	Tyr	Phe	Ala	Ala	Ala	Cys	Glu	Leu	Leu	Glu	Gly	Glu	Leu	Pro

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<210> 9912
<211> 728
<212> PRT
<213> Enterobacter cloacae
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Gly	Ile	Ser	Thr	Gly	Ala	Gly	Glu	Gln	Ile	Ala	Gln	His	Ala	Ser	Met
1				5					10					15	
Ile	Gln	Arg	Phe	Leu	Lys	Gln	Gln	Lys	Asn	Ala	Pro	Cys	Thr	Cys	Pro
			20					25					30		
Ala	Ala	Trp	Val	Thr	Leu	Leu	Ala	Leu	Phe	Ser	Gly	Val	Ala	Gln	Asn
		35					40					45			
Ala	Leu	Ser	Ser	Arg	Ala	Trp	Pro	Leu	Thr	Val	Arg	Ser	Gly	Val	Lys

50	55	60
Met Ser Ser Arg Lys Glu Leu Ala Asn Ala Ile Arg Ala Leu Ser Met		
65	70	75
Asp Ala Val Gln Lys Ala Lys Ser Gly His Pro Gly Ala Pro Met Gly		
	85	90
Met Ala Asp Ile Ala Glu Val Leu Trp Arg Asp Phe Leu Asn His Asn		
	100	105
Pro Gln Asn Pro Ala Trp Ala Asp Arg Asp Arg Phe Val Leu Ser Asn		
	115	120
Gly His Gly Ser Met Leu Ile Tyr Ser Leu Leu His Leu Thr Gly Tyr		
	130	135
Asp Leu Pro Ile Glu Glu Leu Lys Asn Phe Arg Gln Leu His Ser Lys		
145	150	155
Thr Pro Gly His Pro Glu Val Gly Tyr Thr Ala Gly Val Glu Thr Thr		
	165	170
Thr Gly Pro Leu Gly Gln Gly Ile Ala Asn Ala Val Gly Met Ala Ile		
	180	185
Ala Glu Lys Thr Leu Ala Ala Gln Phe Asn Arg Pro Gly His Asp Ile		
	195	200
Val Asp His Phe Thr Tyr Ala Phe Leu Gly Asp Gly Cys Met Met Glu		
	210	215
Gly Ile Ser His Glu Val Cys Ser Leu Ala Gly Thr Leu Lys Leu Gly		
225	230	235
Lys Leu Val Ala Phe Tyr Asp Asp Asn Gly Ile Ser Ile Asp Gly His		
	245	250
Val Glu Gly Trp Phe Thr Asp Asp Thr Ala Ala Arg Phe Glu Ala Tyr		
	260	265
Gly Trp His Val Val Arg Gly Val Asp Gly His Asp Ala Asp Ser Ile		
	275	280
Lys Arg Ala Val Glu Glu Ala Arg Ala Val Thr Asp Lys Pro Ser Leu		
	290	295
Leu Met Cys Lys Thr Ile Ile Gly Phe Gly Ser Pro Asn Lys Ala Gly		
305	310	315
Thr His Asp Ser His Gly Ala Pro Leu Gly Asp Ala Glu Ile Ala Leu		
	325	330
Thr Arg Glu Ala Leu Gly Trp Lys His Pro Ala Phe Glu Ile Pro Ser		
	340	345
Glu Ile Tyr Ala Gln Trp Asp Ala Lys Glu Val Gly Gln Ala Lys Glu		
	355	360
Ala Ala Trp Asn Glu Lys Phe Ala Ala Tyr Ala Lys Ala Phe Pro Gln		
	370	375
Glu Ala Ala Glu Phe Thr Arg Arg Met Lys Gly Asp Met Pro Ser Asp		
385	390	395
Phe Asp Ala Lys Ala Asn Glu Phe Ile Ala Lys Leu Gln Ala Asn Pro		
	405	410
Ala Lys Ile Ala Ser Arg Lys Ala Ser Gln Asn Ala Ile Glu Ala Phe		
	420	425
Gly Pro Leu Leu Pro Glu Phe Leu Gly Gly Ser Ala Asp Leu Ala Pro		
	435	440
Ser Asn Leu Thr Leu Trp Ser Gly Ser Lys Pro Ile Asn Glu Asp Thr		
	450	455
Ala Gly Asn Tyr Ile His Tyr Gly Val Arg Glu Phe Gly Met Thr Ala		
465	470	475
Ile Ala Asn Gly Ile Ala Leu His Gly Gly Phe Leu Pro Tyr Thr Ser		
	485	490
Thr Phe Leu Met Phe Val Glu Tyr Ala Arg Asn Ala Val Arg Met Ala		
	500	505
Ala Leu Met Lys Gln Arg Gln Val Met Val Tyr Thr His Asp Ser Ile		
	515	520
Gly Leu Gly Glu Asp Gly Pro Thr His Gln Pro Val Glu Gln Val Ala		
530	535	540

Ser Leu Arg Val Thr Pro Asn Met Ser Thr Trp Arg Pro Cys Asp Gln
 545 550 555 560
 Val Glu Ser Ala Val Ala Trp Lys Tyr Gly Val Glu Arg Gln Asp Gly
 565 570 575
 Pro Thr Ala Leu Ile Leu Ser Arg Gln Asn Leu Ala Gln Gln Glu Arg
 580 585 590
 Thr Pro Glu Gln Leu Ala Asn Ile Ala Arg Gly Gly Tyr Val Leu Lys
 595 600 605
 Asp Cys Ala Gly Gln Pro Glu Leu Ile Phe Ile Ala Thr Gly Ser Glu
 610 615 620
 Val Glu Leu Ala Val Ala Ala Trp Glu Lys Leu Thr Ala Glu Gly Val
 625 630 635 640
 Lys Ala Arg Val Val Ser Met Pro Ser Thr Asp Ala Phe Asp Lys Gln
 645 650 655
 Asp Ala Ala Tyr Arg Glu Ser Val Leu Pro Lys Ala Val Ser Ala Arg
 660 665 670
 Val Ala Val Glu Ala Gly Ile Ala Asp Tyr Trp Phe Lys Tyr Val Gly
 675 680 685
 Leu Asn Gly Ala Ile Val Gly Met Thr Thr Phe Gly Glu Ser Ala Pro
 690 695 700
 Ala Glu Gln Leu Phe Glu Glu Phe Gly Phe Thr Val Glu Asn Val Val
 705 710 715 720
 Ala Lys Ala Lys Glu Leu Leu
 725

<210> 9913

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 9913

Tyr Tyr Pro Phe Pro Leu Met Thr Phe Pro Gln Tyr Ser Leu Pro Pro
 1 5 10 15
 Gly Gln Leu Cys Glu Asn Tyr Val Met Leu Ser Tyr Tyr Phe Gln Gly
 20 25 30
 Leu Val Leu Gly Ala Ala Met Ile Leu Pro Leu Gly Pro Gln Asn Ala
 35 40 45
 Phe Val Met Asn Gln Gly Ile Arg Arg Gln Tyr His Leu Met Ile Ala
 50 55 60
 Leu Leu Cys Ala Val Ser Asp Leu Leu Leu Ile Cys Ala Gly Ile Phe
 65 70 75 80
 Gly Gly Ser Ala Leu Leu Met Gln Ser Pro Trp Leu Leu Ala Leu Val
 85 90 95
 Thr Trp Gly Gly Val Ala Phe Leu Leu Trp Tyr Gly Phe Gly Ala Leu
 100 105 110
 Lys Thr Ala Met Ser Ser Asn Leu Glu Leu Ala Ser Ala Glu Val Met
 115 120 125
 Lys Gln Gly Arg Trp Lys Ile Ile Val Thr Met Leu Ala Val Thr Trp
 130 135 140
 Leu Asn Pro His Val Tyr Leu Asp Thr Phe Val Val Leu Gly Ser Leu
 145 150 155 160
 Gly Gly Gln Leu Asp Val Glu Pro Lys Arg Trp Phe Ala Leu Gly Thr
 165 170 175
 Val Ser Ala Ser Phe Leu Trp Phe Phe Gly Leu Ala Ile Leu Ala Ala
 180 185 190
 Trp Leu Ala Pro Arg Leu Arg Thr Ala Lys Ala Gln Arg Ile Ile Asn
 195 200 205
 Thr Leu Val Gly Leu Val Met Trp Phe Ile Ala Phe Gln Leu Ala Lys
 210 215 220
 Glu Asp Ile His His Val Gln Gly Leu Phe Asn
 225 230 235

<210> 9914
 <211> 232
 <212> PRT
 <213> Enterobacter cloacae

<400> 9914

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Cys Ala Leu Ser Phe His Thr Thr Gly Lys Thr Ile Met Thr Gln Asp
1      5      10      15
Glu Leu Lys Lys Ala Val Gly Trp Ala Ala Leu Gln Tyr Val Gln Pro
20      25      30
Gly Thr Ile Val Gly Val Gly Thr Gly Ser Thr Ala Ala His Phe Ile
35      40      45
Asp Ala Leu Gly Thr Met Lys Gly Gln Ile Glu Gly Ala Val Ser Ser
50      55      60
Ser Asp Ala Ser Thr Glu Lys Leu Lys Ser Leu Gly Ile Thr Val Phe
65      70      75      80
Asp Leu Asn Glu Val Asp Arg Leu Gly Ile Tyr Val Asp Gly Ala Asp
85      90      95
Glu Ile Asn Gly His Met Gln Met Ile Lys Gly Gly Gly Ala Ala Leu
100     105     110
Thr Arg Glu Lys Ile Ile Ala Ser Val Ala Asp Lys Phe Ile Cys Ile
115     120     125
Ala Asp Ala Ser Lys Gln Val Asp Ile Leu Gly Asn Phe Pro Leu Pro
130     135     140
Val Glu Val Ile Pro Met Ala Arg Ser Ala Val Ala Arg Gln Leu Val
145     150     155     160
Lys Leu Gly Gly Arg Pro Glu Tyr Arg Gln Gly Val Val Thr Asp Asn
165     170     175
Gly Asn Val Ile Leu Asp Val His Gly Leu Glu Ile Leu Asp Ala Ile
180     185     190
Ala Leu Glu Asn Ala Ile Asn Gly Ile Pro Gly Val Val Thr Val Gly
195     200     205
Leu Phe Ala Asn Arg Gly Ala Asp Val Ala Leu Ile Gly Thr Ala Asp
210     215     220
Gly Val Lys Thr Ile Val Lys
225     230

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<210> 9915
 <211> 411
 <212> PRT
 <213> Enterobacter cloacae

<400> 9915

```

Met Ala Lys Val Ser Leu Glu Lys Asp Lys Ile Lys Phe Leu Leu Val
1      5      10      15
Glu Gly Val His Gln Lys Ala Leu Asp Ser Leu Arg Ala Ala Gly Tyr
20      25      30
Thr Asn Ile Glu Phe His Lys Gly Ala Leu Asp Thr Glu Glu Leu Lys
35      40      45
Ala Ser Ile Arg Asp Ala His Phe Ile Gly Leu Arg Ser Arg Thr Gln
50      55      60
Leu Thr Glu Asp Val Ile Ala Ala Ala Glu Lys Leu Val Ala Ile Gly
65      70      75      80
Cys Phe Cys Ile Gly Thr Asn Gln Val Asp Leu Asn Ala Ala Ala Lys
85      90      95
Arg Gly Ile Pro Val Phe Asn Ala Pro Phe Ser Asn Thr Arg Ser Val
100     105     110
Ala Glu Leu Val Ile Gly Glu Leu Leu Leu Leu Arg Gly Ile Pro
115     120     125
Glu Ala Asn Ala Lys Ala His Arg Gly Val Trp Asn Lys Leu Ala Ala

```

130		135		140
Gly Ser Tyr Glu Ala Arg	Gly Lys Lys Leu Gly Ile Ile Gly Tyr Gly			
145	150	155		160
His Ile Gly Thr Gln Leu Gly Ile Leu Ala Glu Ser Leu Gly Met His				
	165	170		175
Val Phe Phe Tyr Asp Ile Glu Ser Lys Leu Pro Leu Gly Asn Ala Thr				
	180	185		190
Gln Val Gln His Leu Ser Asp Leu Leu Asn Met Ser Asp Val Val Ser				
	195	200		205
Leu His Val Pro Glu Asn Ala Ser Thr Lys Asn Met Met Gly Ala Glu				
	210	215		220
Glu Leu Ala Leu Met Lys Pro Gly Ser Leu Leu Ile Asn Ala Ala Arg				
225	230	235		240
Gly Thr Val Val Asp Ile Pro Ala Leu Cys Asp Ala Leu Lys Arg Lys				
	245	250		255
His Leu Ala Gly Ala Ala Ile Asp Val Phe Pro Thr Glu Pro Ala Thr				
	260	265		270
Asn Ser Asp Pro Phe Thr Ser Pro Leu Cys Glu Phe Asp Asn Val Ile				
	275	280		285
Leu Thr Pro His Ile Gly Gly Ser Thr Gln Glu Ala Gln Glu Asn Ile				
	290	295		300
Gly Leu Glu Val Ala Gly Lys Leu Ser Lys Tyr Ser Asp Asn Gly Ser				
305	310	315		320
Thr Leu Ser Ala Val Asn Phe Pro Glu Val Ser Leu Pro Leu His Gly				
	325	330		335
Gly Arg Arg Leu Leu His Ile His Glu Asn Arg Pro Gly Val Leu Thr				
	340	345		350
Ala Ile Asn Gln Ile Phe Ala Glu Gln Gly Val Asn Ile Ala Ala Gln				
	355	360		365
Tyr Leu Gln Thr Asn Ser Gln Met Gly Tyr Val Val Ile Asp Ile Glu				
	370	375		380
Ala Asp Glu Asp Ile Ala Glu Lys Ala Leu Gln Ser Met Lys Ala Ile				
385	390	395		400
Pro Gly Thr Ile Arg Ala Arg Leu Leu Tyr				
	405	410		

<210> 9916

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9916

Phe Pro Gly Arg Glu His Ile Ser Ser Cys Arg Trp Leu Ile Thr Gln				
1	5	10		15
Thr Ser Arg Met His Lys Lys Asp Asn His Ile Arg Gly Gln Ser Arg				
	20	25		30
Phe Cys Pro His Lys Arg Leu Asn Asn Ala Phe Met Leu His Ala Ser				
	35	40		45
Thr Ser Pro Phe Tyr Pro Leu Phe Ala Ala Leu Asp Val Asn Ala Lys				
	50	55		60
Ile His Glu Gly Glu Ser Gly Arg Arg Leu Trp Ala Glu Cys Val Glu				
65	70	75		80
Leu Gly Ile Glu Ala Arg Lys Ala Ile Ile Ala Asn Cys His Met Ile				
	85	90		95
Lys Pro Phe Ile Pro Pro Val Val Ala Gly Arg Pro Trp Gln Asp His				
	100	105		110
Pro Thr Gln Ala Ile Ala Ser Glu Arg Arg Phe Phe Ser Phe Glu Pro				
	115	120		125
Gly Ala Lys Trp His Gly Phe Glu Gly Tyr Ala Arg Glu Gln Tyr Phe				
	130	135		140
Val Asp Pro Cys Lys Leu Leu Leu Thr Thr Pro Gly Ile Asp Ala Glu				

145					150				155				160
Thr	Gly	His	Tyr	Thr	Asp	Phe	Gly	Ile	Pro	Ala	Thr	Ile	Leu
				165					170				Ala
Tyr	Leu	Arg	Glu	Asn	Gly	Ile	Val	Pro	Glu	Lys	Cys	Asp	Leu
			180					185					Asn
Ile	Leu	Phe	Leu	Leu	Thr	Pro	Ala	Glu	Ser	Ala	Glu	Lys	Leu
		195					200				205		Met
Leu	Val	Ala	Met	Leu	Gly	Gln	Phe	Glu	Gln	His	Ile	Glu	Asp
	210				215					220		Asp	Thr
Pro	Leu	Ala	Asp	Val	Leu	Pro	Thr	Ile	Tyr	Gln	Lys	Tyr	Pro
225				230					235			Val	Arg
Tyr	Arg	Asp	Tyr	Thr	Ile	Arg	Gln	Leu	Cys	Gln	Glu	Met	His
			245					250					Asp
Tyr	Val	Ser	Phe	Asn	Val	Lys	Asp	Leu	Gln	Lys	Ala	Met	Phe
		260					265					270	Arg
Glu	Ser	Leu	Pro	Ala	Val	Val	Met	Asn	Pro	Gln	Asp	Ala	Asn
	275						280			285		Gln	Glu
Tyr	Ile	Arg	Gly	Asn	Val	Glu	Leu	Val	Arg	Ile	Arg	Asp	Ala
	290			295					300			Glu	Gly
Arg	Ile	Ala	Ala	Glu	Gly	Ala	Leu	Pro	Tyr	Pro	Pro	Gly	Val
305				310				315				Leu	Cys
Val	Val	Pro	Gly	Glu	Val	Trp	Gly	Gly	Ala	Val	Gln	Arg	Tyr
			325					330					Phe
Ala	Leu	Glu	Glu	Gly	Ile	Asn	Met	Leu	Pro	Gly	Phe	Ser	Pro
		340					345				350		Glu
Gln	Gly	Val	Tyr	Ser	Glu	Lys	Asp	Ala	Asp	Gly	Ile	Lys	Arg
	355					360					365		Leu
Gly	Tyr	Val	Leu	Lys									Tyr
	370												

<210> 9917

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9917

Arg	Leu	His	Leu	Ser	Ala	Asp	Ser	Gly	Gln	Leu	Pro	Arg	Leu	Ser	Phe
1				5				10						15	
Gln	Glu	Arg	Thr	Met	Lys	Leu	Ala	Ser	Phe	Leu	Tyr	Gln	Gly	Lys	Arg
			20					25					30		
Ser	Tyr	Gly	Ile	Val	Gln	Ala	Asp	Gly	Val	Ile	Asp	Leu	Gly	Arg	Arg
		35					40				45				
Leu	Gly	Asp	Arg	Tyr	Gly	Asp	Leu	Lys	Ala	Leu	Leu	Gln	Gly	Asn	Gly
	50				55					60					
Leu	Ala	Gln	Ala	Thr	Arg	Phe	Leu	Asn	Asp	Ala	Val	Asp	Val	Pro	Leu
65				70					75					80	
Asn	Ala	Ile	Thr	Phe	Leu	Pro	Val	Ile	Val	Gln	Pro	Glu	Lys	Ile	Leu
			85					90						95	
Cys	Val	Gly	Met	Asn	Tyr	Ala	Asp	Lys	Arg	Lys	Glu	Phe	Asp	Gln	His
		100					105						110		
Asn	Pro	Ala	Pro	Thr	Leu	Phe	Val	Arg	Phe	Pro	Asp	Ser	Gln	Thr	Gly
		115					120					125			
His	Asn	Glu	Pro	Val	Leu	Lys	Pro	Arg	His	Ser	Ser	Glu	Phe	Asp	Tyr
	130				135					140					
Glu	Gly	Glu	Leu	Ala	Val	Ile	Ile	Gly	Lys	Gly	Gly	Glu	Asn	Ile	Ser
145				150					155						160
Arg	Asp	Asp	Ala	Leu	Arg	His	Val	Ala	Gly	Tyr	Ser	Cys	Tyr	Met	Asp
			165					170						175	
Gly	Ser	Ala	Arg	Asp	Trp	Gln	His	Thr	Trp	Phe	Thr	Ala	Gly	Lys	Asn
		180					185						190		
Trp	Arg	Gln	Thr	Gly	Ala	Phe	Gly	Pro	Trp	Met	Ala	Thr	Ala	Asp	Glu

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<210> 9918
<211> 129
<212> PRT
<213> Enterobacter cloacae
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<210> 9919
<211> 257
<212> PRT
<213> Enterobacter cloacae
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<400> 9919															
Ser	Lys	Asn	Gly	Ala	Ser	Ile	Ser	Trp	Pro	Ile	Leu	Ser	Glu	Gly	Val
1				5					10					15	
Phe	Lys	Met	Arg	Lys	Thr	Leu	Leu	Ala	Val	Ala	Leu	Leu	Ala	Ile	Gly
			20					25					30		
Ser	Thr	Ala	His	Ala	Glu	Tyr	Lys	Cys	Ser	Val	Thr	Pro	Arg	Asp	Asp
		35					40					45			
Val	Val	Leu	Ser	Pro	Gln	Thr	Val	Gln	Val	Lys	Gly	Glu	Asn	Gly	Asn
	50					55					60				
Leu	Val	Ile	Thr	Pro	Asp	Gly	Asn	Val	Thr	Phe	Asn	Gly	Lys	Pro	Gln
65					70					75				80	
Asn	Leu	Thr	Ala	Ala	Gln	Arg	Glu	Gln	Ala	Met	Asp	Tyr	Gln	Ala	Glu
			85						90					95	
Leu	Arg	Thr	Ala	Leu	Pro	Trp	Ile	Asn	Asp	Gly	Ala	Leu	Thr	Arg	Val
			100					105					110		

Glu	Lys	Ser	Arg	Val	Ala	Leu	Asp	Lys	Ile	Ile	Thr	Lys	Glu	Val	Gly
	115						120					125			
Glu	Ser	Ser	Asn	Met	Arg	Thr	Arg	Leu	Thr	Lys	Leu	Asp	Lys	Gln	Leu
	130						135				140				
Lys	Glu	Gln	Met	Asn	Arg	Ile	Ile	Glu	Thr	Arg	Ser	Asp	Gly	Leu	Thr
145					150					155					160
Phe	His	Tyr	Lys	Ala	Ile	Asp	Gln	Val	Arg	Ala	Asp	Gly	Gln	Gln	Leu
				165					170						175
Val	Asn	Gln	Ala	Met	Gly	Gly	Ile	Leu	Gln	Asp	Ser	Ile	Asn	Glu	Met
			180					185					190		
Gly	Ala	Lys	Ala	Val	Leu	Lys	Gly	Gly	Gly	Asn	Pro	Leu	Gln	Gly	Val
	195						200					205			
Leu	Gly	Ser	Leu	Gly	Gly	Leu	Gln	Thr	Ser	Ile	Gln	Asn	Glu	Trp	Lys
	210					215					220				
Asn	Gln	Glu	Ala	Asp	Phe	Gln	Gln	Phe	Gly	Lys	Asp	Val	Cys	Lys	Arg
225					230					235					240
Val	Val	Ser	Leu	Glu	Asp	Ser	Arg	Lys	Ala	Leu	Val	Gly	Thr	Leu	Lys
				245					250						255

<210> 9920

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 9920

Cys	Ile	Asp	Phe	Ile	Arg	Gly	Gln	Asp	Met	Ser	Thr	Leu	Gly	His	Gln
1			5						10					15	
Tyr	Asp	Asn	Ser	Leu	Val	Ser	Asn	Ala	Phe	Gly	Phe	Leu	Arg	Leu	Pro
			20					25				30			
Met	Asn	Phe	Gln	Pro	Tyr	Asp	Ser	Asp	Ala	Asp	Trp	Val	Ile	Thr	Gly
		35					40					45			
Val	Pro	Phe	Asp	Met	Ala	Thr	Ser	Gly	Arg	Ala	Gly	Gly	Arg	His	Gly
	50					55					60				
Pro	Ala	Ala	Ile	Arg	Gln	Val	Ser	Thr	Asn	Leu	Ala	Trp	Glu	His	Asn
65					70				75						80
Arg	Phe	Pro	Trp	Asn	Phe	Asp	Met	Arg	Glu	Arg	Leu	Asn	Val	Val	Asp
				85					90					95	
Cys	Gly	Asp	Leu	Val	Tyr	Ala	Phe	Gly	Asp	Ala	Arg	Glu	Met	Ser	Glu
			100					105					110		
Lys	Leu	Gln	Ala	His	Ala	Glu	Lys	Leu	Leu	Ala	Ala	Gly	Lys	Arg	Met
		115					120					125			
Leu	Ser	Phe	Gly	Gly	Asp	His	Phe	Val	Thr	Leu	Pro	Leu	Leu	Arg	Ala
	130					135					140				
His	Ala	Lys	His	Phe	Gly	Lys	Met	Ala	Leu	Val	His	Phe	Asp	Ala	His
145					150					155					160
Thr	Asp	Thr	Tyr	Ala	Asn	Gly	Cys	Glu	Phe	Asp	His	Gly	Thr	Met	Phe
				165					170					175	
Tyr	Thr	Ala	Pro	Lys	Glu	Gly	Leu	Ile	Asp	Pro	Asn	His	Ser	Val	Gln
		180						185					190		
Ile	Gly	Ile	Arg	Thr	Glu	Phe	Asp	Lys	Asp	Asn	Gly	Phe	Thr	Val	Leu
		195					200					205			
Asp	Ala	Gly	Gln	Val	Asn	Asp	Arg	Gly	Val	Asp	Asp	Ile	Leu	Ala	Gln
	210					215					220				
Val	Lys	Gln	Ile	Val	Gly	Asp	Met	Pro	Val	Tyr	Leu	Thr	Phe	Asp	Ile
225					230					235					240
Asp	Cys	Leu	Asp	Pro	Ala	Phe	Ala	Pro	Gly	Thr	Gly	Thr	Pro	Val	Ile
				245					250					255	
Gly	Gly	Leu	Thr	Ser	Asp	Arg	Ala	Ile	Lys	Leu	Val	Arg	Gly	Leu	Lys
			260					265						270	

Asp Leu Asn Ile Val Gly Met Asp Val Val Glu Val Ala Pro Ala Tyr
 275 280 285
 Asp Gln Ser Glu Ile Thr Ala Leu Ala Ala Thr Leu Ala Leu Glu
 290 295 300
 Met Leu Tyr Ile Gln Ala Ala Lys Lys Gly Glu
 305 310 315

<210> 9921

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9921

Ser Thr Ala Gly Ser Arg Leu Met Asn Gly Leu Leu Ser Gly Lys Arg
 1 5 10 15
 Ile Val Ile Thr Gly Ala Ala Arg Gly Leu Gly Phe His Phe Ala Lys
 20 25 30
 Ala Cys Ala Glu Gln Gly Ala Ala Val Val Met Cys Asp Ile Leu Lys
 35 40 45
 Gly Glu Leu Ala Glu Ser Ala His Ala Leu Ser Glu Arg Gly Tyr Ala
 50 55 60
 Ile Glu Pro His Val Ile Asp Leu Ala Asp Pro Gln Ser Ile Glu Gln
 65 70 75 80
 Val Phe Ser Ala Ile Gly Glu Gln Gly Gln Ile Asp Gly Leu Val Asn
 85 90 95
 Asn Ala Ala Met Ala Thr Gly Val Gly Gly Lys Asn Met Leu Asp Tyr
 100 105 110
 Asp Pro Asp Leu Trp Asp Arg Val Met Ser Val Asn Val Lys Gly Thr
 115 120 125
 Trp Leu Val Thr Arg Ala Ala Val Pro Leu Leu Arg Glu Gly Ala Gly
 130 135 140
 Ile Val Asn Val Ala Ser Asp Thr Ala Leu Trp Gly Ala Pro Arg Leu
 145 150 155 160
 Met Ala Tyr Val Ala Ser Lys Gly Ala Val Ile Ala Met Thr Arg Ser
 165 170 175
 Met Ala Arg Glu Leu Gly Glu Lys Arg Ile Arg Ile Asn Ala Ile Ala
 180 185 190
 Pro Gly Leu Thr Arg Val Glu Ala Thr Glu Tyr Val Pro Ala Glu Arg
 195 200 205
 His Gln Leu Tyr Glu Asn Gly Arg Ala Leu Thr Gly Ala Gln Gln Pro
 210 215 220
 Glu Asp Val Thr Gly Ser Val Val Trp Leu Leu Ser Asp Leu Ser Arg
 225 230 235 240
 Phe Ile Thr Gly Gln Leu Ile Pro Val Asn Gly Gly Phe Val Phe Asn
 245 250 255

<210> 9922

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9922

Gly Arg Ala Met Met Ala Asn Asp Gln Glu Val Lys Tyr Leu Val Pro
 1 5 10 15
 Gly Leu Glu Arg Gly Leu Gln Leu Leu Ala Phe Gly Glu Gln His
 20 25 30
 Arg Asp Leu Thr Phe Ala Glu Leu His Arg Leu Val Asp Met Pro Lys
 35 40 45
 Ala Thr Ala Tyr Arg Val Val Gln Thr Leu Glu Tyr Met Gly Phe Leu

50	55	60
Glu Arg Asn Thr Arg Thr Asn Thr Phe Ser Leu Gly Met Asn Val Leu		
65	70	75
Arg Leu Gly Phe Glu Tyr Ile Ala Ser Leu Asp Val Ala Gln Val Gly		80
	85	90
Gln Pro Val Ile Glu Gln Leu Arg Asp Val Ser Gln Cys Ser Ser His		95
	100	105
Leu Ala Ile Arg Asp Gly Arg Asp Ile Ile Tyr Ile Ala Arg Val Ser		110
	115	120
Ala Ala Gly Ser Arg Ile Asn Gln Val Ser Ile Gly Thr Arg Leu Pro		125
	130	135
Val His Cys Thr Ser Leu Gly Arg Met Leu Leu Thr Asp Ile Ser Arg		140
145	150	155
Ala Asp Phe Glu Gln Leu Phe Pro His Glu Arg Leu Pro Gly Asn Thr		160
	165	170
Pro Gly Gln Leu His Asp Arg Glu Ala Leu Trp Gln Met Val Gln Gln		175
	180	185
Asp Lys Ala Arg Gly Tyr Val Ile Gly Glu Ser Phe Phe Arg His Gly		190
	195	200
Ile Ser Ser Ile Val Tyr Pro Val Tyr Asp Arg Ser Gly Arg Val Ala		205
	210	215
Ala Val Val Ser Ile Leu Val Pro Ser Glu Glu Ile Pro Gln Ser Asp		220
225	230	235
Arg Glu Arg Leu Gln Asn Glu Val Arg Leu Ala Ala Asp Lys Ile Ser		240
	245	250
Gly Phe Leu Gly Tyr Leu Ser Gln Ala Ser		255
	260	265

<210> 9923

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9923

Leu Arg Arg Ala Cys Phe Thr Pro Asn Leu Gly Gln Met Arg Gln Arg	
1	5
Thr Met Ser Val Thr Gly Ile Glu Lys Leu Glu Phe Gly Val Glu Asp	10
	20
Leu Thr His Cys Ala Lys Phe Met Arg Asp Phe Gly Leu Thr Gly Asp	25
	30
Ala Ser Gly Gln Arg Phe Thr Thr Leu Ser Gly Ala Arg Val Glu Leu	35
	40
Asn Pro Ile Asp Ser Pro Asp Leu Pro Pro Ala Phe Glu Ala Gly Asn	45
65	50
Thr Leu Arg Arg Met Thr Trp Ala Val Ala Ala Gln Ser Asp Leu Asp	55
	60
Ala Leu Arg Pro Lys Leu Ala Gln Gln Pro Gly Phe Arg Glu Val Gly	65
	70
Asp Ala Leu Glu Cys Leu Asp Pro Asn Gly Met Thr Leu Arg Val Gln	75
	80
Val Thr Gln Gln Thr Asp Val Glu Leu Asn Val Glu Pro Ile Asn Gln	85
	90
Trp Gly Asp Ala Arg Arg Ile Asp Thr Pro Ser Pro Val Tyr Asp Arg	95
145	100
Ala Gln Pro Ile Asn Val Gly His Val Val Phe Phe Val Glu Glu Leu	105
	110
Ala Ala Val Glu Lys Phe Tyr Arg Glu Val Leu Gly Phe Gln Val Ser	115
	120
Asp Arg Tyr Ile Asn Arg Ala Val Phe Leu Arg Cys Gly Val Arg Gly	125
	130
Gly His His Asn Leu Phe Leu Leu Gln Leu Pro Asn Arg Lys Arg Gly	135
	140
	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205

210		215		220
Leu Asn His Val Ala	Phe Thr Val Arg Asp Ile His Glu Val Ile Gly			
225	230	235		240
Gly Gly Ile Ala Met	Asn Lys His Asp Trp Ser Thr Phe Ile Gly Pro			
	245	250		255
Gly Arg His Pro Val Ser Ser Ala Tyr Phe Trp Tyr Val Asn Ser Pro				
	260	265		270
Thr Gly Gly Ala Phe Glu Tyr Tyr Thr Asn Asp Asp Tyr Leu Thr Glu				
	275	280		285
Asn Trp Gln Pro Arg Glu Leu Glu His Ser Leu Val Ser Phe Thr Glu				
	290	295		300
Trp Ala Val Glu Gly Gly Ile Asp His Asp Thr Arg Arg Gln Gln Lys				
305	310	315		320
Lys Pro Glu Ala Val				
	325			

<210> 9924

<211> 426

<212> PRT

<213> Enterobacter cloacae

<400> 9924

Pro Ala Pro Val Gly Gly Glu Met Thr Thr Leu Glu Thr Asn Thr Ala	
1	5 10 15
Pro Val Glu Ala Ser Gly Glu Gly Thr Arg Thr Pro Glu Lys Ala Val	
	20 25 30
Arg Trp Ala Ile Pro Leu Ser Leu Leu Ala Cys Val Leu Leu Ala Phe	
	35 40 45
Phe Asp Lys Ile Ser Ile Ala Ala Leu Phe Ser Asp Thr His Phe Gln	
	50 55 60
Gln Ala Met Gly Ile Asp Phe Asp Thr Thr Arg Leu Gly Ile Leu Met	
	65 70 75 80
Ser Ala Phe Leu Leu Ser Tyr Gly Phe Ser Ser Val Phe Leu Ser Gly	
	85 90 95
Leu Gly Asp Lys Ile Ala Pro Leu Arg Leu Leu Thr Gly Met Met Ala	
	100 105 110
Val Trp Cys Val Leu Met Val Ala Met Gly Phe Thr His Asn Tyr Thr	
	115 120 125
Leu Met Ile Val Leu Arg Ile Leu Leu Gly Val Ala Glu Gly Pro Leu	
	130 135 140
Phe Pro Leu Ala Phe Ala Ile Val Arg His Asn Phe Pro Gln His Leu	
	145 150 155 160
Gln Ala Arg Ala Thr Met Leu Trp Leu Leu Gly Thr Pro Val Gly Ala	
	165 170 175
Ala Ile Gly Phe Pro Leu Ser Leu Trp Leu Leu Asn Thr Phe Gly Trp	
	180 185 190
Gln Ser Thr Phe Phe Val Met Ala Met Leu Thr Val Pro Val Leu Ile	
	195 200 205
Leu Val Arg Ile Gly Leu Arg Gly Ile Arg Leu Glu Ala Lys Pro Gly	
	210 215 220
Thr Ser Gln Ala Ser Gln Asp Glu Arg Arg Ala Ala Arg Arg Glu Leu	
	225 230 235 240
Phe Val Ser Pro His Phe Trp Ile Ile Cys Ile Phe Asn Ile Ala Phe	
	245 250 255
Leu Thr Tyr Leu Trp Gly Ile Asn Gly Trp Leu Pro Gly Tyr Leu Ile	
	260 265 270
Lys Gly Lys Gly Ile His Leu Glu His Ala Gly Trp Leu Ser Ser Met	
	275 280 285
Pro Phe Ile Ala Met Leu Ala Gly Glu Val Ile Gly Ala Trp Leu Ser	
	290 295 300
Asp Arg Val Asp Lys Arg Ala Ala Ala Cys Phe Ile Ser Met Ala Gly	

305					310					315					320
Ala	Ala	Val	Gly	Leu	Ala	Ala	Val	Met	His	Leu	Asp	Thr	Pro	Leu	Ala
				325					330					335	
Ile	Ile	Ala	Ala	Met	Ser	Phe	Ser	Thr	Phe	Met	Trp	Gly	Thr	Gly	Ala
			340					345					350		
Pro	Asn	Ile	Phe	Ala	Leu	Leu	Ala	Lys	Ala	Thr	His	Pro	Arg	Val	Ser
		355					360					365			
Ala	Thr	Ala	Gly	Gly	Ile	Phe	Asn	Gly	Leu	Gly	Asn	Phe	Ala	Gly	Ala
	370					375					380				
Leu	Ser	Pro	Ala	Val	Met	Gly	Ala	Leu	Ile	Ala	Phe	Thr	His	Ser	Met
385					390					395					400
Asp	Ser	Gly	Leu	Ile	Phe	Leu	Ala	Val	Met	Ala	Ala	Val	Gly	Cys	Val
			405						410					415	
Leu	Leu	Leu	Pro	Leu	Leu	Arg	Arg	Tyr							
			420					425							

<210> 9925

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9925

Ala	Met	Ser	Glu	Met	Ile	Thr	Val	Gly	Asp	Ala	Ile	Ala	Arg	Thr	Leu
1				5					10					15	
Glu	Gln	Tyr	Gln	Val	Glu	Ala	Ile	Tyr	Gly	Val	Ile	Ser	Ile	His	Asn
			20					25					30		
Leu	Pro	Ile	Ala	Asp	Ala	Val	Gly	Gln	Arg	Gly	Asn	Ile	Arg	Phe	Val
		35					40					45			
Pro	Ala	Arg	Gly	Glu	Ala	Gly	Ser	Val	Thr	Met	Ala	Asp	Ala	His	Gly
	50					55					60				
Arg	Phe	Ser	Gly	Leu	Gly	Val	Ala	Leu	Thr	Ser	Thr	Gly	Ala	Gly	Ala
65					70					75					80
Gly	Asn	Ala	Val	Gly	Ala	Leu	Val	Glu	Ala	Met	Asn	Ala	Cys	Thr	Pro
			85					90					95		
Leu	Leu	His	Leu	Thr	Gly	Gln	Val	Glu	Lys	Ala	Trp	Leu	Asp	Ala	Asp
		100						105					110		
Thr	Gly	Phe	Ile	His	Glu	Thr	Arg	Asp	Gln	Leu	Thr	Phe	Leu	Lys	Ala
	115						120					125			
Ser	Ser	Lys	Arg	Ala	Tyr	Arg	Ile	Ser	Asn	Ala	Asn	Gln	Ala	Ile	Ala
	130					135					140				
Ile	Leu	His	Lys	Ala	Ile	Gln	Asp	Ala	Gln	Thr	Pro	Pro	Cys	Gly	Pro
145					150					155					160
Val	Ser	Val	Glu	Ile	Pro	Ile	Asp	Ile	Gln	Ser	Ala	Lys	Ile	Pro	Leu
			165						170					175	
Ser	Leu	Val	Thr	Ala	Pro	Ile	Lys	Pro	Val	Ser	Ala	Pro	Ala	Val	Asp
		180						185					190		
Thr	Gly	Met	Val	Asp	Ala	Leu	Trp	Ala	Gln	Leu	Lys	Gln	Ala	Lys	Gln
	195						200					205			
Pro	Leu	Leu	Trp	Leu	Gly	Gly	Gly	Ala	Leu	Gly	Ser	Ala	Glu	Ala	Val
	210				215						220				
Lys	Lys	Leu	Ala	Asp	Ala	Gly	Ile	Thr	Val	Ile	Ser	Ser	Thr	His	Ala
225					230					235					240
Arg	Gly	Val	Leu	Pro	Asp	Asn	His	Arg	Ala	Ser	Leu	Arg	Ala	Phe	His
			245						250					255	
Asn	Ser	Pro	Ser	Val	Glu	Ala	Leu	Ile	Ala	Gln	Cys	Asp	Phe	Thr	Leu
		260						265					270		
Val	Ala	Gly	Ser	Arg	Leu	Arg	Ser	Asn	Glu	Thr	Arg	Ser	Trp	Thr	Leu
		275					280					285			
Glu	Leu	Pro	Ser	Pro	Arg	Val	Gln	Leu	Asp	Ile	Asp	Pro	Ala	Ala	Ala
	290					295					300				
Ser	Arg	Asn	Tyr	Leu	Met	Asp	Ser	Thr	Leu	Ile	Ala	Asp	Cys	Ser	Ala

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<210> 9926
<211> 345
<212> PRT
<213> Enterobacter cloacae
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<400>	9926														
Leu	Cys	Arg	Arg	Ser	Met	Thr	Val	Arg	Val	Ala	Ile	Asn	Gly	Phe	Gly
1				5					10					15	
Arg	Ile	Gly	Arg	Asn	Val	Val	Arg	Ala	Leu	Tyr	Glu	Ser	Gly	Arg	Arg
			20					25					30		
Ala	Glu	Ile	Thr	Val	Val	Ala	Ile	Asn	Glu	Leu	Ala	Asp	Ala	Ala	Gly
		35					40					45			
Met	Ala	His	Leu	Leu	Lys	Tyr	Asp	Thr	Ser	His	Gly	Arg	Phe	Ala	Trp
	50					55					60				
Asp	Val	Arg	Gln	Glu	Arg	Glu	Gln	Leu	Phe	Val	Gly	Asp	Asp	Ala	Ile
65					70					75					80
Arg	Val	Leu	His	Glu	Asn	Ser	Ile	Glu	Gly	Leu	Pro	Trp	Arg	Glu	Leu
				85					90					95	
Gly	Val	Asp	Val	Val	Leu	Asp	Cys	Thr	Gly	Val	Tyr	Gly	Asn	Arg	Glu
			100					105					110		
His	Gly	Glu	Ala	His	Leu	Asn	Ala	Gly	Ala	Lys	Lys	Val	Leu	Phe	Ser
		115					120					125			
His	Pro	Gly	Ser	Asn	Asp	Leu	Asp	Ala	Thr	Val	Val	Phe	Gly	Val	Asn
	130					135					140				
Gln	His	Glu	Leu	His	Ala	Glu	His	Arg	Ile	Val	Ser	Asn	Ala	Ser	Cys
145					150					155					160
Thr	Thr	Asn	Cys	Ile	Pro	Val	Ile	Lys	Leu	Leu	Asp	Asp	Ala	Tyr	
				165				170					175		
Gly	Ile	Glu	Ser	Gly	Thr	Val	Thr	Thr	Ile	His	Ser	Ala	Met	His	Asp


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<210> 9927
<211> 393
<212> PRT
<213> Enterobacter cloacae
```

Glu 1	Val	Ser	His	Ser 5	Gly	Ala	Gly	Lys	Pro 10	Ala	Gln	Phe	Ser	Ala 15	Arg
Leu	Ser	Glu	Leu 20	Ala	Pro	Phe	Leu	Thr 25	Ala	Glu	Asp	Thr	Gly 30	Leu	Ser
Asn	Met	Ser 35	Lys	Ile	Phe	Asp	Phe 40	Val	Lys	Pro	Gly	Val 45	Ile	Thr	Gly
Asp	Asp 50	Val	Gln	Lys	Val	Phe 55	Gln	Val	Ala	Lys	Glu 60	Asn	Asn	Phe	Ala
Leu 65	Pro	Ala	Val	Asn	Cys 70	Val	Gly	Thr	Asp	Ser 75	Ile	Asn	Ala	Val	Leu 80
Glu	Thr	Ala	Ala 85	Lys	Val	Lys	Ala	Pro 90	Val	Ile	Val	Gln	Phe	Ser 95	Asn
Gly	Gly	Ala	Ala 100	Phe	Ile	Ala	Gly	Lys 105	Gly	Val	Lys	Thr	Asp 110	Ile	Pro
Gln	Gly	Ala 115	Ala	Ile	Leu	Gly	Ala 120	Ile	Ser	Gly	Ala	His 125	His	Val	His
Gln	Met 130	Ala	Glu	His	Tyr	Gly 135	Val	Pro	Val	Ile	Leu 140	His	Thr	Asp	His
Cys 145	Ala	Lys	Lys	Leu 150	Leu	Pro	Trp	Ile	Asp	Gly 155	Leu	Leu	Asp	Ala	Gly 160
Glu	Lys	His	Phe 165	Ala	Ala	Thr	Gly	Lys	Pro 170	Leu	Phe	Ser	Ser	His 175	Met
Ile	Asp	Leu 180	Ser	Glu	Glu	Ser	Leu 185	Glu	Glu	Asn	Ile	Glu	Ile 190	Cys	Ser
Lys	Tyr 195	Leu	Ala	Arg	Met	Ser	Lys 200	Met	Gly	Met	Thr	Leu 205	Glu	Ile	Glu
Leu	Gly 210	Cys	Thr	Gly	Gly	Glu 215	Glu	Asp	Gly	Val	Asp 220	Asn	Ser	His	Met
Asp 225	Ala	Ser	Ala	Leu 230	Tyr	Thr	Gln	Pro	Glu	Asp 235	Val	Asp	Tyr	Ala	Tyr 240
Thr	Glu	Leu	Ser 245	Lys	Ile	Ser	Pro	Arg	Phe 250	Thr	Ile	Ala	Ala	Ser 255	Phe
Gly	Asn	Val	His	Gly	Val	Tyr	Lys	Pro	Gly	Asn	Val	Val	Leu	Thr	Pro

```
<210> 9928
<211> 644
<212> PRT
<213> Enterobacter cloacae
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<400>	9928														
Ile	Pro	His	Ser	Val	Ser	Ser	Gly	Met	Thr	Arg	Ser	Asn	Cys	Trp	Ile
1				5					10					15	
Gln	Glu	Thr	Asp	Met	Leu	Tyr	Lys	Gly	Asp	Thr	Leu	Tyr	Val	Asp	Trp
			20					25					30		
Leu	Glu	Asp	Gly	Ile	Ala	Glu	Leu	Val	Phe	Asp	Ala	Pro	Gly	Ser	Val
			35				40					45			
Asn	Lys	Leu	Asp	Thr	Ala	Thr	Val	Ala	Ser	Leu	Gly	Gln	Ala	Leu	Asp
	50					55					60				
Val	Leu	Glu	Lys	Gln	Ser	Asp	Leu	Lys	Gly	Leu	Leu	Leu	Arg	Ser	Asn
65					70					75					80
Lys	Ala	Ala	Phe	Ile	Val	Gly	Ala	Asp	Ile	Thr	Glu	Phe	Leu	Ser	Leu
				85					90					95	
Phe	Leu	Val	Pro	Glu	Glu	Gln	Leu	Ser	Gln	Trp	Leu	His	Phe	Ala	Asn
			100					105					110		
Ser	Val	Phe	Asn	Arg	Leu	Glu	Asp	Leu	Pro	Val	Pro	Thr	Leu	Ser	Ala
		115					120					125			
Val	Asn	Gly	Tyr	Ala	Leu	Gly	Gly	Gly	Cys	Glu	Cys	Val	Leu	Ala	Thr
	130					135					140				
Asp	Tyr	Arg	Leu	Ala	Thr	Pro	Asp	Leu	Arg	Ile	Gly	Leu	Pro	Glu	Thr
145					150					155					160
Lys	Leu	Gly	Ile	Met	Pro	Gly	Phe	Gly	Gly	Ser	Val	Arg	Met	Pro	Arg
				165					170					175	
Met	Leu	Gly	Ala	Asp	Ser	Ala	Leu	Glu	Ile	Ile	Ala	Ala	Gly	Lys	Asp
			180					185					190		
Val	Gly	Ala	Glu	Gln	Ala	Gln	Lys	Ile	Gly	Leu	Val	Asp	Gly	Val	Val
		195					200					205			
Lys	Pro	Glu	Lys	Leu	Val	Glu	Gly	Ala	Leu	Ala	Ile	Leu	Arg	Gln	Ala
	210					215					220				
Ile	Asn	Gly	Asp	Leu	Asp	Trp	Lys	Ala	Lys	Arg	Gln	Pro	Lys	Leu	Glu
225					230					235					240
Pro	Leu	Lys	Leu	Ser	Lys	Ile	Glu	Ala	Thr	Met	Ser	Phe	Thr	Ile	Ala
				245					250					255	
Lys	Gly	Met	Val	Met	Gln	Thr	Ala	Gly	Lys	His	Tyr	Pro	Ala	Pro	Ile
			260					265					270		
Thr	Ala	Val	Lys	Thr	Ile	Glu	Ala	Ala	Ala	Arg	Leu	Gly	Arg	Asp	Asp
		275					280					285			
Ala	Leu	Lys	Leu	Glu	Asn	Gln	Ser	Phe	Val	Pro	Leu	Ala	His	Thr	Asn

290		295		300
Glu Ala Arg Ala Leu Val Gly Ile Phe Leu Asn Asp Gln Phe Val Lys				
305		310		315
Gly Lys Ala Lys Gln Leu Thr Lys Asn Val Glu Thr Pro Lys His Ala				
	325		330	335
Ala Val Leu Gly Ala Gly Ile Met Gly Gly Gly Ile Ala Tyr Gln Ser				
	340		345	350
Ala Trp Lys Gly Val Pro Val Val Met Lys Asp Ile Asn Glu Lys Ser				
	355		360	365
Leu Thr Leu Gly Met Thr Glu Ala Ser Lys Leu Leu Asn Lys Gln Leu				
	370		375	380
Glu Arg Gly Lys Ile Asp Gly Leu Lys Leu Ala Gly Val Ile Ser Thr				
385		390		395
Ile Gln Pro Val Leu Glu Tyr Ser Gly Phe Asp Arg Val Asp Val Val				
	405		410	415
Val Glu Ala Val Val Glu Asn Pro Lys Val Lys Lys Ala Val Leu Ala				
	420		425	430
Glu Thr Glu Asp Lys Val Arg Pro Glu Thr Val Leu Ala Ser Asn Thr				
	435		440	445
Ser Thr Ile Pro Ile Ser Glu Leu Ala Ser Val Leu Lys Arg Pro Glu				
	450		455	460
Asn Phe Cys Gly Met His Phe Phe Asn Pro Val His Arg Met Pro Leu				
465		470		475
Val Glu Val Ile Arg Gly Glu Lys Thr Ser Asp Glu Thr Ile Ala Lys				
	485		490	495
Val Val Ala Trp Ala Ser Lys Met Gly Lys Thr Pro Ile Val Val Asn				
	500		505	510
Asp Cys Pro Gly Phe Phe Val Asn Arg Val Leu Phe Pro Tyr Phe Ala				
	515		520	525
Gly Phe Ser Gln Leu Leu Arg Asp Gly Ala Asp Phe Arg Lys Ile Asp				
	530		535	540
Lys Val Met Glu Lys Gln Phe Gly Trp Pro Met Gly Pro Ala Tyr Leu				
545		550		555
Leu Asp Val Val Gly Ile Asp Thr Ala His His Ala Gln Ala Val Met				
	565		570	575
Ala Ala Gly Phe Pro Gln Arg Met Gln Lys Asp Tyr Arg Asp Ala Ile				
	580		585	590
Asp Ala Leu Phe Asp Ala Asn Arg Phe Gly Gln Lys Asn Gly Leu Gly				
	595		600	605
Phe Trp Arg Tyr Lys Glu Asp Ser Lys Gly Lys Pro Lys Lys Glu Glu				
	610		615	620
Asp Ala Ala Val Asp Gly Pro Ala Gly Arg Arg Gln Ser Ala Glu Thr				
625		630		635
Arg Leu His				640

<210> 9929

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 9929

Met Phe Leu Leu Ser Gln Leu His Ile Pro Leu Gln Lys Gly Leu Ile		
1	5	10
Ile Met Lys Ile Lys Asn Leu Thr Leu Thr Leu Cys Thr Thr Leu Leu		
	20	25
Leu Ala Ser Phe Ala Gly His Ala Lys Glu Val Lys Ile Gly Met Ala		
	35	40
Ile Asp Asp Leu Arg Leu Glu Arg Trp Gln Lys Asp Arg Asp Ile Phe		
	50	55
Val Lys Lys Ala Glu Ser Leu Gly Ala Glu Val Phe Val Gln Ser Ala		60

65					70					75				80
Asn	Gly	Asn	Glu	Glu	Thr	Gln	Met	Ser	Gln	Ile	Glu	Asn	Met	Ile
				85					90					95
Arg	Gly	Val	Asp	Val	Leu	Val	Ile	Ile	Pro	Tyr	Asn	Gly	Gln	Val
			100					105					110	Leu
Ser	Asn	Val	Val	Lys	Glu	Ala	Lys	Gln	Glu	Gly	Ile	Lys	Val	Leu
		115					120					125		Ala
Tyr	Asp	Arg	Met	Ile	Asn	Asn	Ala	Asp	Ile	Asp	Tyr	Tyr	Ile	Ser
	130					135					140			Phe
Asp	Asn	Glu	Lys	Val	Gly	Glu	Leu	Gln	Ala	Lys	Ser	Leu	Val	Ala
145					150					155				Lys
Val	Pro	Gln	Gly	Asn	Tyr	Phe	Leu	Met	Gly	Gly	Ser	Pro	Val	Asp
				165					170					175
Asn	Ala	Lys	Leu	Phe	Arg	Gln	Gly	Gln	Met	Lys	Val	Leu	Lys	Pro
			180					185					190	Tyr
Ile	Asp	Glu	Gly	Lys	Ile	Lys	Val	Val	Gly	Asp	Gln	Trp	Ala	Asp
	195						200					205		Gly
Trp	Leu	Pro	Glu	Asn	Ala	Leu	Lys	Ile	Met	Glu	Asn	Ala	Leu	Thr
210						215					220			Ala
Asn	Asn	Asn	Lys	Ile	Asp	Ala	Val	Val	Ala	Ser	Asn	Asp	Ala	Thr
225					230					235				240
Gly	Gly	Ala	Ile	Gln	Ala	Leu	Ser	Ala	Gln	Gly	Leu	Ala	Gly	Lys
				245					250					255
Ala	Ile	Ser	Gly	Gln	Asp	Ala	Asp	Leu	Ala	Gly	Val	Lys	Arg	Ile
			260					265					270	Ile
Ala	Gly	Thr	Gln	Thr	Met	Thr	Val	Tyr	Lys	Pro	Ile	Thr	Glu	Leu
	275						280					285		Ala
Asn	Thr	Ala	Ala	Glu	Ile	Ala	Val	Glu	Leu	Gly	Asn	Gly	Gln	Gln
290						295					300			Pro
Lys	Ala	Asp	Ala	Thr	Leu	Asn	Asn	Gly	Leu	Lys	Asp	Val	Pro	Ala
305					310					315				Arg
Leu	Leu	Thr	Pro	Ile	Glu	Val	Asn	Lys	Glu	Asn	Ile	Asp	Ala	Thr
				325					330					335
Val	Lys	Asp	Gly	Phe	His	Lys	Lys	Ser	Glu	Leu				
			340					345						

<210> 9930

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 9930

Ser	Ser	Ala	Ala	Pro	Ala	Arg	Gln	Gly	Arg	Ile	Asp	Leu	Pro	Cys	Thr
1				5					10					15	
Ser	Val	Gly	Pro	Cys	Gly	Ala	Val	Met	Ser	Tyr	Leu	Leu	Glu	Met	Lys
			20					25					30		
Ser	Ile	Thr	Lys	Ala	Phe	Gly	Ala	Val	Lys	Ala	Val	Asp	Asn	Val	Ser
		35				40						45			
Leu	Arg	Leu	Asn	Pro	Gly	Glu	Val	Met	Ser	Leu	Cys	Gly	Glu	Asn	Gly
	50					55					60				
Ser	Gly	Lys	Ser	Thr	Leu	Met	Lys	Val	Leu	Cys	Gly	Ile	Tyr	Pro	His
65					70					75				80	
Gly	Ser	Tyr	Glu	Gly	Glu	Ile	Val	Phe	Ala	Gly	Glu	Val	Leu	Gln	Ala
				85					90					95	
Thr	His	Ile	Arg	Asp	Thr	Glu	Arg	Lys	Gly	Ile	Ala	Ile	Ile	His	Gln
			100					105					110		
Glu	Leu	Ala	Leu	Val	Lys	His	Leu	Thr	Val	Leu	Glu	Asn	Ile	Phe	Leu
		115					120					125			
Gly	Ala	Glu	Leu	Ser	Arg	His	Gly	Val	Leu	Asp	Tyr	Asp	Thr	Met	Thr
	130					135					140				
Leu	Arg	Cys	Glu	Lys	Leu	Leu	Ala	Gln	Val	Ser	Leu	Ala	Ile	Ser	Pro

145					150					155				160	
Asp	Thr	Arg	Val	Gly	Asp	Leu	Gly	Leu	Gly	Gln	Gln	Gln	Leu	Val	Glu
				165					170					175	
Ile	Ala	Lys	Ala	Leu	Asn	Lys	Gln	Val	Arg	Leu	Leu	Ile	Leu	Asp	Glu
			180					185					190		
Pro	Thr	Ala	Ser	Leu	Thr	Glu	Gln	Glu	Thr	Ala	Val	Leu	Leu	Asn	Ile
		195					200					205			
Ile	Arg	Asp	Leu	Gln	Asn	His	Gly	Ile	Ala	Cys	Ile	Tyr	Ile	Ser	His
	210					215					220				
Lys	Leu	Asn	Glu	Val	Lys	Ala	Ile	Ser	Asp	Thr	Ile	Cys	Val	Ile	Arg
225					230					235					240
Asp	Gly	Gln	His	Ile	Gly	Thr	Arg	Glu	Ala	Glu	Gly	Met	Ser	Glu	Asp
			245						250					255	
Asp	Ile	Ile	Thr	Met	Met	Val	Gly	Arg	Glu	Leu	Thr	Ala	Leu	Tyr	Pro
			260				265						270		
Asn	Glu	Pro	His	Thr	Ile	Gly	Glu	Glu	Leu	Leu	Arg	Val	Glu	Asn	Leu
		275					280					285			
Thr	Ala	Trp	His	Pro	Val	Asn	Arg	His	Ile	Lys	Arg	Val	Asp	Asn	Leu
	290					295					300				
Ser	Phe	Ser	Leu	His	Arg	Gly	Glu	Ile	Leu	Gly	Ile	Ala	Gly	Leu	Val
305					310					315					320
Gly	Ala	Gly	Arg	Thr	Glu	Ala	Val	Gln	Cys	Leu	Phe	Gly	Val	Trp	Pro
			325						330					335	
Gly	Arg	Trp	Glu	Gly	Lys	Ile	Tyr	Ile	Asp	Gly	Gln	Pro	Val	Lys	Ile
			340					345					350		
Asp	Asn	Cys	Gln	Gln	Ala	Ile	Ala	Lys	Gly	Ile	Ala	Met	Val	Pro	Glu
		355					360					365			
Asp	Arg	Lys	Lys	Asp	Gly	Ile	Val	Pro	Val	Met	Ala	Val	Gly	Lys	Asn
	370					375					380				
Ile	Thr	Leu	Ala	Ala	Leu	Ser	Gln	Phe	Ser	Gly	Ala	Leu	Ser	Ser	Leu
385					390					395					400
Asp	Asp	Ala	Ala	Glu	Gln	Gln	Cys	Ile	Leu	Gln	Ser	Leu	Ala	Arg	Leu
			405						410					415	
Lys	Val	Lys	Thr	Ser	Ser	Pro	Glu	Leu	Ala	Ile	Gly	Arg	Leu	Ser	Gly
			420					425					430		
Gly	Asn	Gln	Gln	Lys	Ala	Ile	Leu	Ala	Arg	Cys	Leu	Leu	Leu	Asn	Pro
	435						440				445				
Arg	Ile	Leu	Ile	Leu	Asp	Glu	Pro	Thr	Arg	Gly	Ile	Asp	Ile	Gly	Ala
	450					455					460				
Lys	Tyr	Glu	Ile	Tyr	Lys	Leu	Ile	Asn	Gln	Leu	Val	Gln	Gln	Gly	Ile
465					470					475					480
Ala	Val	Ile	Val	Ile	Ser	Ser	Glu	Leu	Pro	Glu	Val	Leu	Gly	Leu	Ser
			485						490					495	
Asp	Arg	Val	Leu	Val	Met	His	Glu	Gly	Lys	Leu	Lys	Ala	Asn	Leu	Asn
		500						505					510		
Asn	Gln	Asn	Leu	Thr	Gln	Glu	Gln	Val	Met	Glu	Ala	Ala	Leu	Arg	Ser
		515						520				525			
Glu	Arg	His	Val	Glu	Lys	Gln	Pro	Val							
	530					535									

<210> 9931

<211> 528

<212> PRT

<213> Enterobacter cloacae

<400> 9931

Pro	Ser	Pro	Thr	Gly	Arg	Gly	Arg	Lys	Pro	Asn	Arg	Arg	Pro	Gly	Lys
1				5					10					15	
Arg	Ser	Thr	Arg	Gln	Leu	Ser	Glu	Lys	Lys	Met	Ser	Glu	Lys	Glu	Pro
			20					25					30		
Phe	Trp	Leu	Gly	Ile	Asp	Cys	Gly	Gly	Thr	Tyr	Leu	Lys	Ala	Gly	Leu

<210> 9932
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 9932

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Ser Pro Asn Ala Gly Arg Arg His Asp Met Leu Glu Gln Leu Lys Ala
1      5      10      15
Glu Val Leu Ala Ala Asn Leu Ala Leu Pro Ala His Gln Leu Val Thr
20      25      30
Phe Thr Trp Gly Asn Val Ser Ala Val Asp Arg Ala Ser Gly Met Met
35      40      45
Val Ile Lys Pro Ser Gly Val Glu Tyr Asp Val Met Thr Ala Glu Asp
50      55      60
Met Val Val Val Asn Ile Ala Thr Gly Lys Val Val Glu Gly Ser Lys
65      70      75      80
Lys Pro Ser Ser Asp Thr Pro Thr His Leu Ala Leu Tyr Arg Arg Tyr
85      90      95
Pro Glu Ile Gly Gly Ile Val His Thr His Ser Arg His Ala Thr Ile
100     105     110
Trp Ser Gln Ala Gly Gln Asp Leu Pro Ala Trp Gly Thr Thr His Ala
115     120     125
Asp Tyr Phe Tyr Gly Ala Ile Pro Cys Thr Arg Leu Met Thr Thr Ala
130     135     140
Glu Ile Ala Gly Glu Tyr Glu Tyr Gln Thr Gly Val Val Ile Ile Lys
145     150     155     160
Thr Phe Glu Glu Arg Asp Ile Ser Pro Met Gln Val Pro Ala Val Leu
165     170     175
Val His Ser His Gly Pro Phe Ala Trp Gly Lys Asp Ala Ala Asp Ala
180     185     190
Val His Asn Ala Val Val Leu Glu Glu Cys Ala Tyr Met Gly Leu Phe
195     200     205
Ser Arg Gln Leu Ala Pro Gln Leu Pro Val Met Gln Gln Glu Leu Leu
210     215     220
Glu Lys His Tyr Leu Arg Lys His Gly Ala Asn Ala Tyr Tyr Gly Gln
225     230     235     240

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<210> 9933
 <211> 651
 <212> PRT
 <213> Enterobacter cloacae

<400> 9933

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Thr Ser Gly His Lys Pro Lys Arg Lys His Lys Lys Gly Cys Phe Met
1      5      10      15
Ser Ser Asp Phe Lys Ile Lys Val Gln Ser Phe Gly Arg Phe Leu Ser
20      25      30
Asn Met Val Met Pro Asn Ile Gly Ala Phe Ile Ala Trp Gly Ile Ile
35      40      45
Thr Ala Leu Phe Ile Pro Thr Gly Trp Leu Pro Asn Glu Thr Leu Ala
50      55      60
Lys Leu Val Gly Pro Met Ile Thr Tyr Leu Leu Pro Leu Leu Ile Gly
65      70      75      80
Tyr Thr Gly Gly Arg Leu Val Gly Gly Asp Arg Gly Gly Val Val Gly
85      90      95
Ala Ile Thr Thr Met Gly Val Ile Val Gly Ala Asp Met Pro Met Phe
100     105     110
Leu Gly Ala Met Ile Ala Gly Pro Leu Gly Gly Trp Ala Ile Lys Lys

```

		115					120					125			
Phe	Asp	Val	Trp	Val	Asp	Gly	Lys	Ile	Lys	Ser	Gly	Phe	Glu	Met	Leu
	130					135					140				
Val	Asn	Asn	Phe	Ser	Ala	Gly	Ile	Ile	Gly	Met	Ile	Leu	Ala	Ile	Leu
145					150					155					160
Ala	Phe	Leu	Gly	Ile	Gly	Pro	Ala	Val	Glu	Val	Leu	Ser	Lys	Leu	Leu
				165						170					
Ala	Ala	Gly	Val	Asn	Phe	Met	Val	Ala	His	Asp	Met	Leu	Pro	Leu	Ala
			180					185					190		
Ser	Ile	Phe	Val	Glu	Pro	Ala	Lys	Ile	Leu	Phe	Leu	Asn	Asn	Ala	Ile
		195					200					205			
Asn	His	Gly	Ile	Phe	Ser	Pro	Leu	Gly	Ile	Gln	Gln	Ser	His	Asp	Leu
	210					215					220				
Gly	Lys	Ser	Ile	Phe	Phe	Leu	Ile	Glu	Ala	Asn	Pro	Gly	Pro	Gly	Met
225					230					235					240
Gly	Val	Leu	Leu	Ala	Tyr	Met	Phe	Phe	Gly	Arg	Gly	Ser	Ala	Lys	Gln
				245					250					255	
Ser	Ala	Gly	Gly	Ala	Ala	Ile	Ile	His	Phe	Leu	Gly	Gly	Ile	His	Glu
			260					265					270		
Ile	Tyr	Phe	Pro	Tyr	Val	Leu	Met	Asn	Pro	Arg	Leu	Ile	Leu	Ala	Val
		275					280					285			
Ile	Leu	Gly	Gly	Met	Thr	Gly	Val	Phe	Thr	Leu	Ser	Val	Leu	Gly	Gly
	290					295					300				
Gly	Leu	Val	Ser	Pro	Ala	Ser	Pro	Gly	Ser	Ile	Leu	Ala	Val	Leu	Ala
305					310					315					320
Met	Thr	Pro	Lys	Gly	Ala	Tyr	Phe	Ala	Asn	Ile	Ala	Ala	Ile	Cys	Ala
				325					330					335	
Ala	Met	Ala	Val	Ser	Phe	Val	Ala	Ser	Ala	Ile	Leu	Leu	Lys	Thr	Ser
			340					345					350		
Lys	Val	Lys	Glu	Asp	Asp	Asp	Ile	Glu	Ala	Ala	Thr	Arg	Arg	Met	His
		355					360					365			
Asp	Met	Lys	Ala	Glu	Ser	Lys	Gly	Ala	Thr	Pro	Leu	Ala	Ala	Gly	Asp
	370					375					380				
Val	Ser	Asn	Asp	Leu	Ser	His	Val	Arg	Lys	Ile	Ile	Val	Ala	Cys	Asp
385					390					395				400	
Ala	Gly	Met	Gly	Ser	Ser	Ala	Met	Gly	Ala	Gly	Val	Leu	Arg	Lys	Lys
				405					410					415	
Val	Gln	Asp	Ala	Gly	Leu	Thr	Asn	Ile	Ser	Val	Thr	Asn	Ser	Ala	Ile
			420					425					430		
Asn	Ser	Leu	Pro	Pro	Asp	Val	Asp	Leu	Val	Ile	Thr	His	Arg	Asp	Leu
		435				440						445			
Thr	Glu	Arg	Ala	Met	Arg	Gln	Val	Pro	Gln	Ala	Gln	His	Ile	Ser	Leu
	450					455					460				
Thr	Asn	Phe	Leu	Asp	Ser	Gly	Leu	Tyr	Thr	Ser	Leu	Thr	Glu	Arg	Leu
465</															

Ala Ala Arg Asn Asn Glu His Ile Gln Val Ile Thr Ser Leu Thr Asn
 610 615 620
 Ala Leu Asp Asp Glu Thr Val Ile Glu Arg Leu Ala Asn Thr Thr Ser
 625 630 635 640
 Val Glu Glu Val Leu Ala Leu Leu Asn Lys
 645 650

<210> 9934

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 9934

Pro Phe Ile Ala Ile Asn Pro Thr Ser Gln Tyr Trp Lys Asp His Phe
 1 5 10 15
 Tyr Thr Lys Cys Asp Ala Glu Met Ser Arg Asp Ser Pro Asp Glu His
 20 25 30
 Pro Cys Gly Pro Gln Glu Thr Cys Met Ser Leu Trp Gln Gln Asn Tyr
 35 40 45
 Asp Pro Ala Gly Asn Ile Trp Leu Ser Ser Leu Ile Ala Ser Leu Pro
 50 55 60
 Ile Leu Phe Phe Phe Phe Ala Leu Ile Lys Leu Lys Leu Lys Gly Tyr
 65 70 75 80
 Leu Ala Ala Thr Tyr Thr Val Ala Ile Ala Leu Leu Val Ala Leu Phe
 85 90 95
 Phe Tyr Lys Met Pro Val Asp Arg Ala Leu Ala Ser Val Val Tyr Gly
 100 105 110
 Phe Phe Tyr Gly Leu Trp Pro Ile Ala Trp Ile Ile Ile Ala Ala Val
 115 120 125
 Phe Val Tyr Lys Ile Ser Val Lys Thr Gly Gln Phe Asp Ile Ile Arg
 130 135 140
 Ser Ser Ile Leu Ser Ile Thr Pro Asp Gln Arg Leu Gln Met Leu Ile
 145 150 155 160
 Val Gly Phe Ser Phe Gly Ala Phe Leu Glu Gly Ala Ala Gly Phe Gly
 165 170 175
 Ala Pro Val Ala Ile Thr Ala Ala Leu Leu Val Gly Leu Gly Phe Asn
 180 185 190
 Pro Leu Tyr Ala Ala Gly Leu Cys Leu Ile Val Asn Thr Ala Pro Val
 195 200 205
 Ala Phe Gly Ala Met Gly Ile Pro Ile Leu Val Ala Gly Gln Val Thr
 210 215 220
 Gly Leu Asp Ser Phe Glu Ile Gly Gln Met Val Gly Arg Gln Leu Pro
 225 230 235 240
 Phe Leu Thr Ile Ile Val Leu Phe Trp Ile Met Ala Ile Met Asp Gly
 245 250 255
 Trp Arg Gly Val Lys Glu Thr Trp Pro Ala Val Met Val Ala Gly Gly
 260 265 270
 Ser Phe Ala Ile Ala Gln Tyr Leu Ser Ser Asn Phe Leu Gly Gln Glu
 275 280 285
 Leu Pro Asp Ile Ile Ser Ser Leu Val Ser Leu Val Cys Leu Thr Leu
 290 295 300
 Phe Leu Lys Arg Trp Gln Pro Val Arg Ile Phe Arg Phe Ala Asp Met
 305 310 315 320
 Gly Ala Ser His Val Asp Gln Thr Leu Ala Arg Thr Gly Tyr Thr Ala
 325 330 335
 Gly Gln Ile Val Arg Ala Trp Ser Pro Phe Leu Phe Leu Thr Ala Thr
 340 345 350
 Val Thr Leu Trp Ser Ile Pro Pro Phe Lys Ala Leu Phe Ala Pro Gly
 355 360 365
 Gly Ala Leu Tyr Asp Met Val Ile Asn Ile Ser Val Pro Phe Leu Asp
 370 375 380

Lys Met Val Ala Arg Met Pro Pro Val Val His Asp Ala Thr Pro Tyr
 385 390 395 400
 Ala Ala Val Phe Lys Phe Asp Trp Phe Ser Ala Thr Gly Thr Ala Ile
 405 410 415
 Leu Phe Ala Ala Ile Leu Ser Val Val Trp Leu Arg Met Lys Pro Ala
 420 425 430
 Ala Ala Val Gln Thr Phe Ala Ala Thr Ile Lys Glu Leu Met Leu Pro
 435 440 445
 Ile Tyr Ser Ile Gly Met Val Leu Ala Phe Ala Phe Ile Ser Asn Tyr
 450 455 460
 Ser Gly Leu Ser Ser Thr Leu Ala Leu Ala Leu Ala His Thr Gly His
 465 470 475 480
 Ala Phe Thr Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly Val Phe Leu
 485 490 495
 Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ala Ala Leu Gln Ala
 500 505 510
 Thr Ala Ala Gln Gln Ile Gly Val Ser Asp Val Leu Leu Val Ala Ala
 515 520 525
 Asn Thr Thr Gly Gly Val Thr Gly Lys Met Ile Ser Pro Gln Ser Ile
 530 535 540
 Ala Ile Ala Cys Ala Ala Val Gly Leu Val Gly Lys Glu Ser Asp Leu
 545 550 555 560
 Phe Arg Phe Thr Val Lys His Ser Leu Ile Phe Thr Cys Met Val Gly
 565 570 575
 Val Ile Thr Thr Leu Gln Ala Tyr Val Leu Thr Trp Met Ile Pro
 580 585 590

<210> 9935

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 9935

Trp Arg Arg Ala Ser Arg Ser Ala Cys Arg Lys Thr Ile Ala Thr Pro
 1 5 10 15
 Leu Thr Pro Cys Ser Thr Pro Thr Ala Leu Val Arg Lys Thr Val Trp
 20 25 30
 Ala Ser Gly Ala Ile Lys Lys Thr Ala Lys Ala Asn Arg Lys Lys Lys
 35 40 45
 Lys Met Arg Arg Trp Met Ala Leu Leu Ala Asp Val Ser Gln Pro Lys
 50 55 60
 Arg Asp Phe Thr Asp Asp Glu Ile Ile Ala Arg Met Met Ile Pro Met
 65 70 75 80
 Ile Asn Glu Val Val Arg Cys Leu Glu Glu Gly Ile Ile Ala Ser Pro
 85 90 95
 Ala Glu Ala Asp Met Ala Leu Val Tyr Gly Leu Gly Phe Pro Pro Phe
 100 105 110
 His Gly Gly Ala Phe Arg Trp Leu Asp Thr Leu Gly Ser Ala Arg Tyr
 115 120 125
 Leu Asp Met Ala Gln Gln Tyr Gln His Leu Gly Pro Leu Tyr Glu Val
 130 135 140
 Pro Glu Gly Leu Arg Asn Lys Ala Arg His Asn Glu Pro Tyr Tyr Pro
 145 150 155 160
 Ala Val Glu Pro Ala Arg Pro Val Gly Ala Leu Lys Thr Ala
 165 170 175

<210> 9936

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 9936

Gly Val Thr Met Glu Lys Val Val Ile Val Asp Ala Ile Arg Thr Pro
 1 5 10 15
 Met Gly Arg Ser Lys Gly Gly Ala Phe Arg Asn Val Arg Ala Glu Asp
 20 25 30
 Leu Ser Ala His Leu Met Arg Ser Leu Leu Ala Arg Asn Pro Ala Leu
 35 40 45
 Asp Pro Ala Ala Leu Asp Asp Ile Tyr Trp Gly Cys Val Gln Gln Thr
 50 55 60
 Leu Glu Gln Gly Phe Asn Ile Ala Arg Asn Ala Ser Leu Leu Ala Glu
 65 70 75 80
 Ile Pro His Ser Val Pro Ala Val Thr Val Asn Arg Leu Cys Gly Ser
 85 90 95
 Ser Met Gln Ala Leu His Asp Ala Thr Arg Met Ile Met Thr Gly Asp
 100 105 110
 Ala Gln Ala Cys Leu Val Gly Gly Val Glu His Met Gly His Val Pro
 115 120 125
 Met Ser His Gly Val Asp Phe His Pro Gly Met Ser Arg Asn Val Ala
 130 135 140
 Lys Ala Ala Gly Met Met Gly Leu Thr Ala Glu Met Leu Ser Arg Leu
 145 150 155 160
 His Gly Ile Ser Arg Glu Met Gln Asp Ala Phe Ala Ala Arg Ser His
 165 170 175
 Ala Arg Ala Trp Ala Ala Thr Gln Ser Gly Ala Phe Lys Asn Glu Ile
 180 185 190
 Ile Pro Thr Gly Gly His Asp Ala Asp Gly Val Leu Lys Gln Phe Ser
 195 200 205
 Tyr Asp Glu Val Ile Arg Pro Glu Thr Thr Val Glu Ala Leu Ser Thr
 210 215 220
 Leu Arg Pro Val Phe Asp Pro Val Thr Gly Thr Val Thr Ala Gly Thr
 225 230 235 240
 Ser Ser Ala Leu Ser Asp Gly Ala Ala Ala Met Leu Val Met Ser Glu
 245 250 255
 Ser Arg Ala Arg Glu Leu Gly Leu Thr Pro Arg Ala Arg Val Arg Ser
 260 265 270
 Met Ala Val Val Gly Cys Asp Pro Ser Ile Met Gly Tyr Gly Pro Val
 275 280 285
 Pro Ala Ser Lys Leu Ala Leu Lys Lys Ala Gly Leu Ser Ala Ser Asp
 290 295 300
 Ile Asp Leu Phe Glu Met Asn Glu Ala Phe Ala Ala Gln Ile Leu Pro
 305 310 315 320
 Cys Ile Lys Asp Leu Gly Leu Met Asp Gln Ile Asp Glu Lys Ile Asn
 325 330 335
 Leu Asn Gly Gly Ala Ile Ala Leu Gly His Pro Leu Gly Cys Ser Gly
 340 345 350
 Ala Arg Ile Ser Thr Thr Leu Ile Asn Leu Met Glu Arg Lys Asp Ala
 355 360 365
 Gln Phe Gly Leu Ala Thr Met Cys Ile Gly Leu Gly Gln Gly Ile Ala
 370 375 380
 Thr Val Phe Glu Arg Val
 385 390

<210> 9937

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9937

Gln His Val Tyr Arg Leu Lys Ser Val Ile Leu Arg Ile Ser Pro Ala
 1 5 10 15
 Pro Tyr Lys Leu Ala Trp Leu Asn Ser Glu Phe Ser Lys Gly Lys Val

Gly 1	Ala	Asn	Ala	Met 5	Ser	Lys	Ser	Asn	Pro 10	Ser	Asp	Ile	Lys	Val 15	Ala
Val	Pro	Thr	Pro 20	Gly	Ala	Phe	Ala	Gly 25	Leu	Lys	Ser	Leu	Asn 30	Leu	Gln
Val	Phe	Val 35	Met	Ile	Ala	Ala 40	Ile	Ile	Val	Ile	Met	Leu 45	Phe	Phe	Thr
Trp	Met 50	Thr	Asp	Gly	Ser	Tyr 55	Leu	Ser	Ala	Arg	Asn 60	Val	Ser	Asn	Leu
Leu	Arg	Gln	Thr	Ala	Ile	Thr	Gly	Ile	Leu	Ala	Val	Gly	Met	Val	Phe

65					70					75					80
Val	Ile	Ile	Ser	Ala	Glu	Ile	Asp	Leu	Ser	Val	Gly	Ser	Met	Met	Gly
				85					90					95	
Leu	Leu	Gly	Gly	Val	Ala	Ala	Ile	Phe	Asp	Val	Trp	Leu	Gly	Trp	Pro
			100					105					110		
Leu	Pro	Leu	Thr	Ile	Ala	Val	Thr	Leu	Val	Leu	Gly	Leu	Leu	Leu	Gly
			115				120					125			
Ala	Trp	Asn	Gly	Trp	Trp	Val	Ala	Tyr	Arg	Lys	Val	Pro	Ser	Phe	Ile
			130			135					140				
Val	Thr	Leu	Ala	Gly	Met	Leu	Ala	Phe	Arg	Gly	Ile	Leu	Ile	Gly	Ile
145					150					155					160
Thr	Asn	Gly	Thr	Thr	Val	Ser	Pro	Thr	Ser	Ala	Ser	Met	Ser	Gln	Ile
				165					170					175	
Gly	Gln	Ser	Tyr	Leu	Ser	Asp	Gly	Val	Gly	Phe	Thr	Ile	Gly	Val	Val
			180				185						190		
Gly	Leu	Met	Ala	Phe	Val	Ala	Trp	Gln	Trp	Arg	Gly	Arg	Met	Arg	Arg
		195					200				205				
Gln	Ala	Leu	Gly	Leu	Ala	Ser	Pro	Ala	Ser	Thr	Ser	Val	Val	Gly	Arg
			210			215					220				
Gln	Ala	Leu	Thr	Ala	Val	Ile	Val	Leu	Gly	Ala	Ile	Trp	Leu	Leu	Asn
225					230					235					240
Asp	Tyr	Arg	Gly	Val	Pro	Thr	Pro	Val	Leu	Leu	Ala	Leu	Leu	Leu	
				245				250					255		
Leu	Gly	Gly	Met	Phe	Met	Ala	Thr	Arg	Thr	Ala	Phe	Gly	Arg	Arg	Ile
			260				265						270		
Tyr	Ala	Ile	Gly	Gly	Asn	Leu	Glu	Ala	Ala	Arg	Leu	Ser	Gly	Ile	Asn
		275					280					285			
Val	Glu	Arg	Thr	Lys	Leu	Ala	Val	Phe	Ala	Ile	Asn	Gly	Leu	Met	Val
		290				295					300				
Ala	Ile	Ala	Gly	Leu	Ile	Leu	Ser	Ser	Arg	Leu	Gly	Ala	Gly	Ser	Pro
305					310					315					320
Ser	Ala	Gly	Asn	Ile	Ala	Glu	Leu	Asp	Ala	Ile	Ala	Ala	Cys	Val	Ile
			325					330						335	
Gly	Gly	Thr	Ser	Leu	Ala	Gly	Gly	Ile	Gly	Ser	Val	Ala	Gly	Ala	Val
			340				345						350		
Met	Gly	Ala	Phe	Ile	Met	Ala	Ser	Leu	Asp	Asn	Gly	Met	Ser	Met	Met
		355					360					365			
Asp	Val	Pro	Thr	Phe	Trp	Gln	Tyr	Ile	Val	Lys	Gly	Ala	Ile	Leu	Leu
		370				375					380				
Leu	Ala	Val	Trp	Met	Asp	Ser	Ala	Thr	Lys	Arg	Arg	Ala			
385					390					395					

<210> 9939

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 9939

Ala	Met	Phe	Glu	Lys	Arg	His	Arg	Ile	Thr	Leu	Leu	Phe	Asn	Ala	Asn
1				5				10						15	
Lys	Ala	Tyr	Asp	Arg	Gln	Val	Val	Glu	Gly	Val	Gly	Glu	Tyr	Leu	Gln
			20					25					30		
Ala	Ser	Gln	Ser	Glu	Trp	Asp	Ile	Phe	Ile	Glu	Glu	Asp	Phe	Arg	Thr
		35				40						45			
Arg	Leu	Glu	Asn	Ile	Lys	Asp	Trp	Leu	Gly	Asp	Gly	Val	Ile	Ala	Asp
	50				55					60					
Phe	Asp	Asp	Pro	Val	Ile	Glu	Gln	Leu	Leu	Ser	Gly	Val	Asp	Val	Pro
65				70					75					80	
Ile	Val	Gly	Val	Gly	Gly	Ser	Tyr	His	Thr	Pro	Glu	His	Tyr	Pro	Pro
			85					90					95		
Val	His	Tyr	Ile	Ala	Thr	Asp	Asn	His	Ala	Leu	Val	Glu	Thr	Ala	Phe

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<210> 9940
<211> 466
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Ala	Phe	Thr	Arg 5	Thr	Ile	His	His	Thr 10	Asn	Thr	Asn	Pro	Pro 15	His
Lys	Thr	Thr	Asn 20	Pro	Thr	Thr	Ser	Ala 25	Asp	Leu	His	Gln	His 30	Gly	Ala
Gly	Val	Met 35	Val	Thr	Ala	Phe	His 40	Ile	Lys	Pro	Asp	Arg 45	Ser	Pro	Ala
Met	Thr 50	Phe	Ser	Leu	Phe	Gly 55	Asp	Lys	Phe	Thr	Arg 60	His	Ser	Gly	Ile
Thr 65	Arg	Leu	Met	Glu	Asp 70	Leu	Asn	Asp	Gly	Leu	Arg 75	Thr	Pro	Gly	Ala
Ile	Met	Leu	Gly 85	Gly	Gly	Asn	Pro	Ala	Gln 90	Ile	Pro	Glu	Met 95	Asn	Thr
Tyr	Phe	Gln 100	Thr	Leu	Leu	Ala	Glu	Met 105	Leu	Glu	Asn	Gly	Lys 110	Ala	Thr
Asp	Ala	Leu 115	Cys	Asn	Tyr	Asp	Gly 120	Pro	Gln	Gly	Lys	Thr 125	Glu	Leu	Leu
Thr	Leu	Leu	Ala	Ala	Met	Leu	Arg	Glu	Ala	Leu	Gly	Trp	Asp	Ile	Glu

130	135	140
Pro Gln Asn Ile Ala	Leu Thr Asn Gly Ser Gln Ser Ala Phe Phe Tyr	
145	150	155
Leu Phe Asn Leu Phe	Ala Gly Arg Arg Ala Asp Gly Thr Thr Lys Lys	160
	165	170
Val Leu Phe Pro Leu Ala Pro Glu Tyr Ile Gly Tyr Ala Asp Ala Gly		175
	180	185
Leu Glu Glu Asp Leu Phe Val Ser Ala Arg Pro Asn Ile Glu Leu Leu		190
	195	200
Pro Glu Gly Gln Phe Lys Tyr His Val Asp Phe Glu His Leu His Ile		205
	210	215
Gly Glu Glu Thr Gly Met Ile Cys Val Ser Arg Pro Thr Asn Pro Thr		220
225	230	235
Gly Asn Val Ile Thr Asp Asp Glu Leu Met Lys Leu Asp Ala Leu Ala		240
	245	250
Asn Gln His Gly Ile Pro Leu Val Ile Asp Asn Ala Tyr Gly Val Pro		255
	260	265
Phe Pro Gly Ile Ile Phe Ser Glu Ala Arg Pro Leu Trp Asn Pro Asn		270
	275	280
Ile Ile Leu Cys Met Ser Leu Ser Lys Leu Gly Leu Pro Gly Ser Arg		285
	290	295
Cys Gly Ile Ile Ile Ala Asn Glu Lys Ile Ile Thr Ala Ile Thr Asn		300
305	310	315
Met Asn Gly Ile Ile Ser Leu Ser Pro Gly Gly Ile Gly Pro Ala Met		320
	325	330
Met Cys Glu Met Ile Arg Arg Asn Asp Leu Leu Arg Leu Ser Asn Glu		335
	340	345
Val Ile Lys Pro Phe Tyr Ser Gln Arg Val Gln Glu Thr Ile Ala Ile		350
	355	360
Leu Arg Arg Tyr Leu Pro Glu Glu Arg Cys Leu Ile His Lys Pro Glu		365
	370	375
Gly Ala Ile Phe Leu Trp Leu Trp Phe Lys Asp Leu Pro Ile Thr Thr		380
385	390	395
Glu Leu Leu Tyr Gln Arg Leu Lys Lys Arg Gly Val Leu Met Val Pro		400
	405	410
Gly Asp Tyr Phe Phe Pro Gly Leu Asp Lys Pro Trp Pro His Thr His		415
	420	425
Gln Cys Met Arg Met Asn Tyr Val Pro Asp Pro Glu Lys Ile Glu Ala		430
	435	440
Gly Val Lys Ile Leu Ala Glu Glu Ile Glu Asn Ala Trp Arg Glu Ala		445
	450	455
		460
Gly		
465		

<210> 9941

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9941

Lys Asn Arg Arg Thr Gly Met Lys Val Thr Phe Glu Glu Leu Lys Ala	
1	5
Ala Phe Asn Arg Val Leu Leu Asp Arg Gly Val Lys Ala Asp Thr Ala	
	20
Asp Ala Cys Ala Glu Met Phe Ala Arg Thr Thr Glu Ser Gly Val Tyr	
	35
Ser His Gly Val Asn Arg Phe Pro Arg Phe Ile Gln Gln Leu Asp Ala	
	50
Gly Asp Ile Ile Pro Asp Ala Gln Pro Lys Arg Val Thr Thr Leu Gly	
65	70
Ala Ile Glu Gln Trp Asp Ala Gln Arg Ser Ile Gly Asn Leu Thr Ala	
	75
	80

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<210> 9942
<211> 453
<212> PRT
<213> Enterobacter cloacae
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Arg	Ile	His	Phe	Pro	Val	Thr	Phe	Thr	Glu	Ile	Leu	Thr	Met	Asn	Ile
1				5					10					15	
Ser	Ser	Asn	Ala	Leu	His	Ala	Asp	Ile	Pro	Arg	Gln	Arg	Trp	Leu	Arg
			20					25					30		
Ile	Ile	Pro	Pro	Ile	Leu	Ile	Ala	Cys	Ile	Ile	Ser	Tyr	Met	Asp	Arg
			35				40					45			
Val	Asn	Ile	Ala	Phe	Ala	Met	Pro	Gly	Gly	Met	Asp	Glu	Glu	Leu	Gly
	50					55					60				
Ile	Ser	Ala	Thr	Met	Ala	Gly	Leu	Ala	Gly	Gly	Ile	Phe	Phe	Ile	Gly
65				70					75					80	
Tyr	Leu	Phe	Leu	Gln	Val	Pro	Gly	Gly	Lys	Ile	Ala	Val	His	Gly	Ser
				85					90					95	
Gly	Lys	Lys	Phe	Ile	Gly	Trp	Ser	Leu	Val	Ala	Trp	Ala	Val	Ile	Ser
			100					105					110		
Val	Leu	Thr	Gly	Leu	Val	Thr	Asn	Gln	Tyr	Gln	Leu	Leu	Val	Leu	Arg
			115				120					125			
Phe	Leu	Leu	Gly	Val	Ala	Glu	Gly	Gly	Met	Leu	Ser	Val	Val	Leu	Thr
	130					135					140				
Met	Ile	Ser	Asn	Trp	Phe	Pro	Asp	Ala	Glu	Arg	Gly	Arg	Ala	Asn	Ala
145				150					155					160	
Ile	Val	Ile	Met	Phe	Val	Pro	Ile	Ala	Gly	Ile	Ile	Thr	Ala	Pro	Leu


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<210> 9943
<211> 307
<212> PRT
<213> Enterobacter cloacae
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Ser	Ala	Ala	Gly	Gly	Thr	Gly	Ile	Pro	Phe	Ala	Asn	Pro	Arg	His	Leu
1				5					10					15	
Gly	Arg	Val	Thr	Met	Arg	Gln	His	Pro	Leu	Gly	Ile	Tyr	Glu	Lys	Ala
			20					25					30		
Leu	Pro	Lys	Asp	Leu	Ser	Trp	Pro	Glu	Arg	Leu	Val	Leu	Ala	Lys	Ser
		35					40					45			
Cys	Gly	Phe	Asp	Phe	Val	Glu	Met	Ser	Val	Asp	Glu	Thr	Asp	Glu	Arg
	50					55					60				
Leu	Ser	Arg	Leu	Glu	Trp	Ser	Thr	Thr	Gln	Arg	Ala	Ser	Leu	Val	Glu
65					70					75					80
Ala	Met	Leu	Glu	Thr	Gly	Val	Ala	Ile	Pro	Ser	Met	Cys	Leu	Ser	Ala
				85					90					95	
His	Arg	Arg	Phe	Pro	Phe	Gly	Ser	Arg	Asp	Glu	Ile	Val	Arg	Glu	Arg
			100					105					110		
Ala	Arg	Glu	Ile	Met	Thr	Lys	Ala	Ile	Arg	Leu	Ala	Arg	Asp	Leu	Gly
		115					120					125			
Ile	Arg	Thr	Ile	Gln	Leu	Ala	Gly	Tyr	Asp	Val	Tyr	Tyr	Glu	Glu	His

130 135 140
 Asp Glu Gly Thr Gln Gln Arg Phe Ala Glu Gly Leu Ala Trp Ala Val
 145 150 155 160
 Glu Gln Ala Ala Ala Gln Val Met Leu Ala Val Glu Ile Met Asp
 165 170 175
 Thr Ala Phe Met Asn Ser Ile Ser Lys Trp Lys Lys Trp Asp Asp Met
 180 185 190
 Leu Ala Ser Pro Trp Phe Ser Val Tyr Pro Asp Val Gly Asn Leu Ser
 195 200 205
 Ala Trp Gly Asn Asp Val Thr Ala Glu Leu Thr Leu Gly Ile Asp Arg
 210 215 220
 Ile Ala Ala Ile His Leu Lys Asp Thr Arg Pro Val Thr Glu Gln Ser
 225 230 235 240
 Pro Gly Gln Phe Arg Asp Val Pro Phe Gly Glu Gly Cys Val Asp Phe
 245 250 255
 Val Gly Val Phe Asn Thr Leu Asn Gln Leu Asn Tyr Arg Gly Ala Phe
 260 265 270
 Leu Ile Glu Met Trp Thr Glu Lys Ala Lys Glu Pro Val Leu Glu Ile
 275 280 285
 Ile Gln Ala Arg Arg Trp Ile Glu Ala Arg Met Gln Glu Gly Gly Met
 290 295 300
 Thr Cys
 305

<210> 9944

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 9944

Lys Asn Arg Leu Ser Arg Ser Tyr Pro Met Thr Ser Thr Pro Ile Thr
 1 5 10 15
 Asp Ala Glu Val Ala Lys Gln Ala Ala Asp Glu Arg Leu Ser Val Arg
 20 25 30
 Glu Lys Ile Gly Tyr Gly Leu Gly Asp Ala Gly Gly Thr Val Ile Thr
 35 40 45
 Cys Leu Ile Met Asn Phe Leu Thr Phe Phe Tyr Thr Asp Val Phe Gly
 50 55 60
 Leu Thr Pro Ala Leu Val Gly Thr Leu Phe Ile Ala Leu Arg Val Phe
 65 70 75 80
 Asp Ala Ile Ser Asp Pro Val Met Gly Val Ile Ala Asp Arg Thr Gln
 85 90 95
 Ser Arg Trp Gly Arg Phe Arg Pro Trp Gln Leu Trp Val Ala Leu Pro
 100 105 110
 Ile Gly Ile Val Gly Val Leu Thr Phe Thr Val Pro Asp Ala Ser Met
 115 120 125
 Gly Val Lys Ile Ala Trp Ala Phe Gly Thr Tyr Leu Leu Ser Val
 130 135 140
 Gly Tyr Thr Ala Ile Asn Val Pro Tyr Cys Ala Leu Ile Asn Thr Met
 145 150 155 160
 Thr Thr Arg His Asn Glu Val Ile Ser Cys Gln Ser Trp Arg Phe Val
 165 170 175
 Leu Cys Gly Val Ala Gly Phe Leu Val Ser Val Gly Leu Pro Trp Leu
 180 185 190
 Val Ser Glu Leu Gly Gln Gly Asn Thr Ala Arg Gly Tyr Gln Leu Gly
 195 200 205
 Val Gly Val Leu Cys Ala Ile Ala Val Val Met Phe Leu Cys Cys Phe
 210 215 220
 Phe Trp Val Arg Glu Arg Val Pro Leu Ala Leu Met Gly Lys Phe Thr
 225 230 235 240
 Leu Arg Glu His Leu Ala Gly Leu Arg Lys Asn Asp Gln Leu Leu Leu

				245				250					255				
Met	Leu	Val	Met	Ser	Phe	Leu	Leu	Ile	Asn	Val	Phe	Asn	Ile	Arg	Gly		
			260					265					270				
Gly	Gly	Tyr	Met	Tyr	Phe	Ile	Thr	Tyr	Val	Leu	Gln	Gly	Ser	Thr	Ala		
		275					280					285					
Tyr	Thr	Ser	Leu	Phe	Phe	Thr	Met	Val	Thr	Phe	Ala	Ala	Ile	Leu	Gly		
	290					295				300							
Ala	Val	Ile	Val	Ser	Pro	Leu	Ser	Arg	Arg	Ile	Asp	Thr	Val	Lys	Leu		
305					310					315					320		
Tyr	Tyr	Tyr	Thr	Asn	Leu	Val	Leu	Ala	Ala	Leu	Ala	Val	Gly	Met	Trp		
				325					330					335			
Phe	Leu	Pro	Gly	Gly	Pro	Ala	His	Gln	Thr	Leu	Trp	Leu	Ile	Val	Ile		
			340					345					350				
Leu	Ser	Asn	Gly	Val	Ile	Leu	Gly	Phe	Thr	Leu	Pro	Leu	His	Phe	Ser		
		355					360					365					
Leu	Met	Ala	Phe	Ala	Asp	Asp	Tyr	Gly	Glu	Trp	Lys	Thr	Gly	Val	Arg		
	370				375					380							
Ser	Ser	Gly	Met	Asn	Phe	Ala	Phe	Asn	Leu	Phe	Phe	Ile	Lys	Leu	Ala		
385					390					395					400		
Trp	Ala	Ser	Ser	Ala	Gly	Ile	Ile	Ser	Leu	Val	Phe	Ile	Ala	Val	Ala		
				405					410					415			
Tyr	Gln	Pro	Gly	Ala	Gly	Asn	Gln	Thr	Pro	Ala	Ser	Leu	Gln	Gly	Ile		
			420					425					430				
Thr	Ala	Met	Glu	Thr	Leu	Leu	Pro	Ala	Leu	Phe	His	Leu	Leu	Leu	Ala		
	435					440						445					
Val	Ala	Ile	Arg	Trp	Cys	Arg	Leu	Asn	Asn	Pro	Val	Met	Ser	Arg	Ile		
	450					455				460							
Ala	Thr	Asp	Leu	Arg	Gln	Arg	His	Val	Gln	Ser							
465					470				475								

<210> 9945

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9945

Arg	Ser	Cys	Gly	Gly	Gln	Arg	Ile	Gln	Arg	Asn	Gln	Met	Met	Gln			
1			5					10					15				
Ser	Pro	Ala	Gln	Val	Ser	Leu	Arg	Pro	Asn	Asn	Arg	Leu	Ser	Asp	Met		
			20					25				30					
Gln	Ala	Ile	Met	Glu	Gln	Thr	Gln	Ala	Phe	Glu	Asn	Arg	Val	Leu	Glu		
	35						40				45						
Arg	Leu	Asn	Ala	Gly	Lys	Thr	Val	Arg	Ser	Phe	Leu	Ile	Ala	Ala	Val		
	50					55				60							
Glu	Leu	Leu	Thr	Glu	Ala	Val	Asn	Ile	Leu	Val	Leu	Gln	Val	Phe	Arg		
65				70					75					80			
Lys	Asp	Asp	Tyr	Ala	Val	Lys	Tyr	Ala	Val	Glu	Pro	Leu	Leu	Asp	Gly		
				85				90					95				
Asp	Gly	Pro	Leu	Gly	Asp	Leu	Ser	Val	Arg	Leu	Lys	Leu	Ile	Tyr	Gly		
			100					105					110				
Leu	Gly	Val	Leu	Asn	Arg	Gln	Glu	Tyr	Glu	Asp	Ala	Glu	Leu	Leu	Met		
	115						120					125					
Ala	Leu	Arg	Glu	Glu	Leu	Asn	His	Asp	Gly	Asn	Glu	Tyr	Thr	Phe	Thr		
	130					135					140						
Asp	Asp	Glu	Ile	Leu	Gly	Pro	Phe	Gly	Glu	Leu	His	Cys	Val	Ser	Ala		
145					150				155						160		
Leu	Pro	Pro	Ala	Pro	Gln	Phe	Asp	Asn	Ser	Asp	Pro	Glu	Leu	Tyr	Ala		
				165				170						175			
Met	Gln	Lys	Leu	Arg	Tyr	Gln	Gln	Val	Val	Arg	Ser	Thr	Met	Val	Leu		
	180							185					190				
Ser	Leu	Thr	Glu	Leu	Ile	Ser	Lys	Ile	Ser	Leu	Lys	Lys	Ala	Phe	Gln		

Lys

Leu Pro Asn Phe Ala Arg Asp His Ser Ser Leu Arg Val Leu Leu Ala
 1 5 10 15
 Glu Ser Arg Arg Gly Gly Val Phe Pro Leu Ser Arg Met Ala His Trp
 20 25 30
 Ser Lys Met Pro Arg Gln Glu Asn Gly Met Lys Arg Thr Ala Leu Ala
 35 40 45
 Val Leu Met Leu Pro Ala Phe Ala His Ala Asp Trp Ser Ser Pro Gly
 50 55 60
 Phe Asn Ala Phe Ser Ala Glu Gly Thr Gly Val Phe Thr Ser Gln Ala
 65 70 75 80
 Thr Leu Ala Lys Gly Thr Arg Pro Leu Thr Leu Ser Leu Asp Asn Ala
 85 90 95
 Cys Trp Gln Pro Thr Gly Ala Ile Lys Leu Asn Glu Met Leu Ser Leu
 100 105 110
 Lys Pro Cys Glu Gly Thr Pro Pro Gln Trp Arg Leu Phe Arg Asp Gly
 115 120 125
 Val Tyr Gln Met Arg Ile Asp Thr Arg Ser Gly Thr Pro Thr Leu Met
 130 135 140
 Leu Thr Val Gln Ser Ala Ala Pro Gln Pro Val Ala Asn Val Thr Arg
 145 150 155 160
 Gln Cys Pro Lys Trp Asp Gly Lys Pro Leu Thr Ile Asp Val Val Asn
 165 170 175
 Thr Phe Pro Glu Gly Thr Val Val Arg Asp Phe Tyr Ser Lys Gln Thr
 180 185 190
 Ala Thr Val Gln Asn Gly Lys Val Thr Leu Gln Pro Ala Ala Asn Ser
 195 200 205
 Asn Gly Leu Leu Leu Leu Glu Arg Ala Glu Thr Asp Lys Pro Ala Pro
 210 215 220
 Phe Ser Trp Gln Asn Ala Thr Val Tyr Phe Val Leu Thr Asp Arg Phe
 225 230 235 240
 Val Asn Gly Asp Pro Thr Asn Asp Asn Ser Tyr Gly Arg His Lys Asp
 245 250 255
 Gly Met Gln Glu Ile Gly Thr Phe His Gly Gly Asp Leu Lys Gly Leu
 260 265 270
 Thr Ser Lys Leu Asp Tyr Leu Gln Gln Leu Gly Val Asn Ala Leu Trp
 275 280 285
 Ile Ser Ser Pro Leu Glu Gln Ile His Gly Trp Val Gly Gly Gly Thr
 290 295 300
 Lys Gly Asp Phe Pro His Tyr Ala Tyr His Gly Tyr Tyr Thr Gln Asp
 305 310 315 320
 Trp Thr Lys Leu Asp Ala Asn Met Gly Asn Glu Asp Asp Leu Arg Gln
 325 330 335
 Leu Val Asp Asp Ala His Arg Arg Gly Ile Arg Val Leu Phe Asp Ile
 340 345 350
 Val Met Asn His Ala Gly Tyr Ala Thr Leu Ala Asp Met Gln Glu Tyr
 355 360 365
 Gln Phe Gly Ala Leu Tyr Leu Gln Gly Asp Glu Leu Lys Lys Thr Leu
 370 375 380
 Gly Glu Arg Trp Thr Asp Trp Lys Pro Gly Ala Gly Gln Ser Trp His
 385 390 395 400
 Ser Phe Asn Asp Tyr Ile Asn Phe Ser Asp Lys Ala Ala Trp Glu Lys
 405 410 415
 Trp Trp Gly Lys Lys Trp Ile Arg Thr Asp Ile Gly Asp Tyr Asp Asn
 420 425 430
 Pro Gly Phe Asp Asp Leu Thr Met Ser Leu Ala Phe Leu Pro Asp Leu
 435 440 445
 Lys Thr Glu Ser Lys Ile Pro Ser Gly Leu Pro Asn Phe Tyr Gln His
 450 455 460
 Lys Pro Asp Thr Asn Ala Lys Val Met Thr Asn Phe Thr Pro Arg Asp
 465 470 475 480
 Tyr Leu Thr His Trp Leu Ser Gln Trp Val Arg Asp Tyr Gly Ile Asp

				485					490					495			
Gly	Phe	Arg	Val	Asp	Thr	Ala	Lys	His	Val	Glu	Pro	Glu	Ala	Trp	Leu		
			500					505					510				
Gln	Leu	Lys	Asn	Gln	Ala	Ser	Gln	Ala	Leu	Ala	Ala	Trp	Lys	Ala	Ala		
		515					520					525					
Asn	Pro	Asp	Lys	Lys	Leu	Asp	Asp	Ala	Pro	Phe	Trp	Met	Thr	Gly	Glu		
		530				535					540						
Ser	Trp	Gly	His	Gly	Val	Met	Gln	Ser	Asp	Tyr	Tyr	Arg	His	Gly	Phe		
545					550					555					560		
Asp	Ala	Met	Ile	Asn	Phe	Asp	Tyr	Gln	Glu	Gln	Ala	Ala	Lys	Ala	Val		
			565						570					575			
Asp	Cys	Leu	Ala	Asp	Met	Asp	Leu	Thr	Trp	Gln	Gln	Met	Ala	Glu	Lys		
		580						585					590				
Leu	Gln	Ser	Phe	Asn	Val	Leu	Ser	Tyr	Leu	Ser	Ser	His	Asp	Thr	Arg		
		595					600					605					
Leu	Phe	Arg	Glu	Gly	Gly	Gln	Arg	Ala	Ala	Glu	Leu	Leu	Leu	Leu	Ala		
	610					615					620						
Pro	Gly	Ser	Val	Gln	Ile	Tyr	Tyr	Gly	Asp	Glu	Ser	Glu	Arg	Pro	Phe		
625					630					635					640		
Gly	Pro	Thr	Gly	Ser	Asp	Pro	Leu	Gln	Gly	Thr	Arg	Ser	Asp	Met	Asn		
			645						650					655			
Trp	Gln	Asp	Val	Thr	Gly	Lys	Gln	Ala	Leu	Thr	Val	Ala	His	Trp	Gln		
		660						665					670				
Leu	Leu	Gly	Gln	Phe	Arg	Ala	Arg	His	Pro	Ala	Val	Gly	Glu	Gly	Lys		
		675					680					685					
Gln	Thr	Thr	Leu	Ser	Met	Lys	Glu	Gly	Tyr	Gly	Phe	Val	Arg	Glu	His		
	690					695					700						
Lys	Gly	Asp	Lys	Val	Met	Val	Val	Trp	Ala	Gly	Asn	Gln					
705					710					715							

<210> 9948

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 9948

Ala	Gly	Gly	Val	Tyr	Ala	Ala	Gln	Arg	Val	Gly	Gly	Thr	Gly	Phe	Asp		
1			5						10					15			
Ala	Gly	Gly	Thr	Ala	Leu	Ala	Met	Arg	Ala	Gln	Ile	Thr	Phe	Gln	Arg		
			20					25					30				
Leu	Asn	Ala	Ile	Phe	His	Asp	Pro	Asn	Leu	His	Cys	Pro	Glu	Arg	Ala		
		35				40						45					
Arg	His	His	Thr	Ala	Phe	Ala	Ala	Asp	Thr	Ala	Arg	Leu	Leu	Asn	Glu		
	50					55					60						
Pro	Gly	Ser	Arg	Ser	Ala	Val	Asn	Gly	Pro	Arg	Arg	Ala	Asp	Ile	Arg		
65					70					75				80			
Ala	Gly	Arg	Ile	Phe	Thr	Leu	Val	Ala	Ala	His	Cys	Arg	Gly	Glu	Gly		
			85					90						95			
Phe	Pro	Leu	Asn	His	Ala	Asp	Pro										
			100					105									

<210> 9949

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9949

Ser	Thr	Val	Gln	Pro	Ala	Met	Pro	Asn	Tyr	Ser	Ala	Ser	Trp	Thr	Ser		
1			5					10						15			
Ser	Pro	Pro	Gln	Asn	Ala	Leu	Met	Lys	Met	Ser	Pro	Ser	Val	Cys	Leu		
			20					25					30				

Asp	Met	Asn	Leu	Leu	Ala	Cys	Trp	Lys	Lys	Thr	Ala	Gly	Thr	Ala	Ser
		35					40					45			
Pro	Ser	Thr	Thr	Ala	Cys	Gly	Arg	Lys	Ser	Ser	Leu	Cys	Lys	Glu	Trp
	50					55					60				
Val	Met	Ile	Phe	Gly	His	Ile	Ala	Gln	Pro	Asn	Pro	Cys	Arg	Leu	Pro
65					70					75					80
Leu	Ala	Ile	Glu	Lys	Ala	Leu	Asn	Phe	Leu	Arg	Thr	Thr	Asp	Phe	Thr
				85					90					95	
Thr	Leu	Ala	Pro	Gly	Val	Ile	Glu	Ile	Glu	Gly	Arg	Asn	Ile	Phe	Ala
			100				105						110		
Gln	Val	Leu	Asp	Leu	Thr	Thr	Lys	Glu	Gln	His	Glu	Asn	Arg	Pro	Glu
		115					120					125			
Val	His	Arg	Arg	Tyr	Leu	Asp	Ile	Gln	Phe	Leu	Ala	Trp	Gly	Glu	Glu
	130					135					140				
Lys	Ile	Gly	Ile	Ala	Ile	Asp	Thr	Gly	Asn	Asn	Lys	Ile	Ser	Glu	Ser
145					150					155					160
Leu	Leu	Glu	Gln	Arg	Asp	Ile	Ile	Phe	Tyr	His	Asp	Ser	Glu	His	Glu
				165					170					175	
Ser	Phe	Ile	Glu	Met	Ile	Pro	Gly	Ser	Tyr	Ala	Ile	Phe	Phe	Pro	Gln
			180					185					190		
Asp	Val	His	Arg	Pro	Ala	Cys	Ile	Lys	Asn	Lys	Gly	Ser	Ala	Ile	Arg
		195					200					205			
Lys	Ile	Val	Val	Lys	Val	Ala	Ile	Ser	Glu	Leu	Asp				
	210					215					220				

<210> 9950

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 9950

Gly	Val	Arg	Pro	Met	Ser	Arg	Pro	Leu	Leu	Gln	Leu	Ala	Leu	Asp	His
1				5				10						15	
Thr	Ser	Leu	Gln	Ala	Ala	Gln	Arg	Asp	Val	Ala	Thr	Leu	Ser	Asp	His
		20						25					30		
Val	Asp	Ile	Val	Glu	Ala	Gly	Thr	Ile	Leu	Cys	Leu	Thr	Glu	Gly	Leu
		35					40					45			
Asn	Ala	Val	Arg	Ala	Leu	Arg	Ala	Gln	Cys	Pro	Asp	Lys	Ile	Ile	Val
	50					55					60				
Ala	Asp	Trp	Lys	Val	Ala	Asp	Ala	Gly	Glu	Thr	Leu	Ala	Glu	Gln	Ala
65				70						75					80
Phe	Gly	Ala	Gly	Ala	Asn	Trp	Met	Thr	Ile	Ile	Cys	Ala	Ala	Pro	Leu
				85					90					95	
Ala	Thr	Val	Glu	Arg	Gly	His	Glu	Val	Ala	Leu	Arg	Gly	Gly	Gly	Glu
			100				105						110		
Ile	Gln	Met	Glu	Leu	Phe	Gly	Asn	Trp	Thr	Leu	Asp	Asp	Ala	Arg	Ala
		115					120					125			
Trp	His	Arg	Ile	Gly	Val	Lys	Gln	Ala	Ile	Tyr	His	Arg	Gly	Arg	Asp
	130					135					140				
Ala	Gln	Ala	Ser	Gly	Gln	Gln	Trp	Gly	Glu	Ala	Asp	Leu	Ser	Lys	Met
145				150						155					160
Lys	Ala	Leu	Ser	Asp	Ile	Gly	Leu	Gln	Leu	Ser	Ile	Thr	Gly	Gly	Ile
				165					170					175	
Thr	Pro	Ala	Asp	Leu	Ser	Leu	Phe	Lys	Gln	Ile	Asn	Val	Lys	Ala	Phe
			180					185					190		
Ile	Ala	Gly	Arg	Ala	Leu	Ala	Gly	Ala	Asp	Asn	Pro	Pro	Gln	Val	Ala
		195					200					205			
Gln	Ala	Phe	His	Ser	Gln	Ile	Arg	Asp	Ile	Trp	Gly	Glu			
	210					215					220				

<210> 9951

<211> 669

<212> PRT

<213> Enterobacter cloacae

<400> 9951

Cys	Arg	Ala	Leu	Pro	Pro	Ile	Cys	Ala	Ser	Val	Met	Tyr	Ser	Pro	Glu
1				5					10					15	
Glu	Asn	Asp	Met	Thr	Ile	Met	Glu	Ala	Asp	Leu	His	Gln	Leu	Lys	Ile
			20					25					30		
Asn	Asp	Pro	Phe	Leu	Gly	Gln	Tyr	Gln	Arg	Leu	Val	Arg	Asp	Val	Val
		35					40					45			
Ile	Pro	Tyr	Gln	Trp	Asp	Ala	Leu	Asn	Asp	Arg	Val	Ala	Glu	Ala	Glu
	50					55					60				
Pro	Ser	His	Ala	Ile	Ala	Asn	Phe	Arg	Ile	Ala	Ala	Gly	Leu	Glu	Gln
65					70					75					80
Gly	Glu	Phe	Tyr	Gly	Met	Val	Phe	Gln	Asp	Ser	Asp	Val	Ala	Lys	Trp
				85					90					95	
Leu	Glu	Ala	Val	Ala	Trp	Ser	Leu	Cys	Gln	Lys	Pro	Asp	Ala	Glu	Leu
			100					105					110		
Glu	Lys	Thr	Ala	Asp	Glu	Val	Ile	Glu	Leu	Val	Ala	Ala	Gln	Cys	
		115					120					125			
Glu	Asp	Gly	Tyr	Leu	Asn	Thr	Tyr	Phe	Thr	Val	Lys	Ala	Pro	Ala	Glu
		130				135					140				
Arg	Trp	Thr	Asn	Leu	Ala	Glu	Cys	His	Glu	Leu	Tyr	Cys	Ala	Gly	His
145					150					155					160
Met	Ile	Glu	Ala	Gly	Val	Ala	Tyr	Phe	Gln	Gly	Thr	Gly	Lys	Arg	Arg
				165					170					175	
Leu	Leu	Asp	Val	Val	Cys	Arg	Leu	Ala	Asp	His	Ile	Asp	Ser	Val	Phe
		180						185					190		
Gly	Pro	Gly	Glu	Asn	Gln	Leu	His	Gly	Tyr	Pro	Gly	His	Pro	Glu	Ile
		195					200					205			
Glu	Leu	Ala	Leu	Met	Arg	Leu	Tyr	Asp	Val	Thr	Gln	Glu	Pro	Arg	Tyr
		210				215					220				
Leu	Asn	Leu	Val	Lys	Tyr	Phe	Ile	Glu	Glu	Arg	Gly	Ala	Gln	Pro	His
225					230					235					240
Phe	Tyr	Asp	Ile	Glu	Tyr	Glu	Lys	His	Gly	Arg	Thr	Ser	Tyr	Trp	Asn
			245						250					255	
Thr	Tyr	Gly	Pro	Ala	Trp	Met	Val	Lys	Asp	Lys	Ala	Tyr	Ser	Gln	Ala
			260					265						270	
His	Leu	Pro	Leu	Ala	Ala	Gln	Gln	Thr	Ala	Ile	Gly	His	Ala	Val	Arg
		275					280					285			
Phe	Val	Tyr	Leu	Met	Ala	Gly	Met	Ala	His	Leu	Ala	Arg	Leu	Ser	Asn
		290				295					300				
Asp	Glu	Gly	Lys	Arg	Gln	Asp	Cys	Leu	Arg	Leu	Trp	Asn	Asn	Met	Ala
305					310					315					320
Gln	Arg	Gln	Leu	Tyr	Ile	Thr	Gly	Gly	Ile	Gly	Ser	Gln	Ser	Ser	Gly
				325					330					335	
Glu	Ala	Phe	Ser	Ser	Asp	Tyr	Asp	Leu	Pro	Asn	Asp	Thr	Val	Tyr	Ala
			340					345					350		
Glu	Ser	Cys	Ala	Ser	Ile	Gly	Leu	Met	Met	Phe	Ala	Arg	Arg	Met	Leu
		355					360					365			
Glu	Met	Glu	Ala	Asp	Gly	His	Tyr	Ala	Asp	Val	Met	Glu	Arg	Ala	Leu
		370				375					380				
Tyr	Asn	Thr	Val	Leu	Gly	Gly	Met	Ala	Leu	Asp	Gly	Lys	His	Phe	Phe
385					390					395					400
Tyr	Val	Asn	Pro	Leu	Glu	Val	His	Pro	Lys	Thr	Leu	Ser	Phe	Asn	His
				405					410					415	
Ile	Tyr	Asp	His	Val	Lys	Pro	Val	Arg	Gln	Arg	Trp	Phe	Gly	Cys	Ala
			420					425					430		
Cys	Cys	Pro	Pro	Asn	Ile	Ala	Arg	Val	Leu	Thr	Ser	Leu	Gly	His	Tyr
		435					440					445			


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Ile Tyr Thr Val Arg Pro Asp Ala Leu Leu Ile Asn Leu Tyr Val Gly
  450          455          460
Asn Asp Val Ala Ile Pro Val Gly Asp Asn Ile Leu Gln Leu Arg Ile
  465          470          475          480
Ser Gly Asn Tyr Pro Trp His Glu Gln Val Lys Ile Glu Ile Thr Ser
          485          490          495
Pro Val Pro Val Thr His Thr Leu Ala Leu Arg Leu Pro Asp Trp Cys
          500          505          510
Ala Glu Pro Ala Val Ser Leu Asn Gly Gln Ala Ile Thr Gly Glu Val
          515          520          525
Ser Arg Gly Tyr Leu Tyr Leu Asn Arg Ser Trp Gln Glu Gly Asp Thr
          530          535          540
Leu Thr Leu Thr Leu Pro Met Pro Val Arg Arg Val Tyr Gly Asn Pro
          545          550          555          560
Gln Val Arg Gln Gln Ala Gly Lys Val Ala Leu Gln Arg Gly Pro Leu
          565          570          575
Ile Tyr Cys Leu Glu Glu Ala Asp Asn Gly Ala Asn Leu His Asn Leu
          580          585          590
Ser Leu Arg Gln Asp Ser Ala Phe Arg Val Phe Glu Gly Lys Gly Ile
          595          600          605
Phe Ala His Lys Met Leu Ile Gln Ala Glu Gly Ile Gly Cys Gln Ala
          610          615          620
Lys Asp Thr Asp Ala Leu Trp Gln Tyr Asp His Ser Pro Val Glu Arg
          625          630          635          640
Gln Pro Arg Thr Leu Thr Phe Ile Pro Trp Phe Ser Trp Ala Asn Arg
          645          650          655
Gly Glu Gly Glu Met Arg Ile Trp Val Asp Glu Ser
          660          665

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<210> 9952

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 9952

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Met Asp Ser Cys Thr Ser Ala Arg Leu Gly Gln Val Gln Thr Ser Pro
  1          5          10          15
Trp Leu Asn Ala Asn Ser Ala Asn Pro Ser Ser Ala Leu Ser Lys Lys
          20          25          30
Ala Ser Ser Ser Ser Ile Thr Ser Ala Lys Lys Met Phe Gly Asp Leu
          35          40          45
Pro Pro Ser Ser Ser Val Thr Gly Met Met Phe Trp Val Ala Tyr Cys
          50          55          60
Met Ile Cys Trp Pro Thr Ser Val Glu Pro Val Asn Ala Thr Leu Ala
          65          70          75          80
Ile Arg Phe Glu Val Ala Arg Tyr Ser Pro Ile Ser Pro Pro Ala Pro
          85          90          95
Leu Thr Thr Leu Met Thr Pro Gly Gly Asn Arg Ser Pro Ile Thr Ser
          100          105          110
Ile Ser Ser Ser Thr Glu Ser Gly Val Lys Arg Ala Gly Phe Ser Thr
          115          120          125
Thr Gln Leu Pro Ala Ala Ser Ala Gly Ala Ile Phe Gln Leu Ala Ile
          130          135          140
Ser Ser Gly Lys Phe His Gly Ile Ile Cys Pro Thr Thr Pro Ser Gly
          145          150          155          160
Ser Trp Lys

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<210> 9953

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9953

Val Tyr Asn Lys Gly Ser Ser Gly Trp Trp Phe Ser Arg Gln Ser Val
 1 5 10 15
 Thr Gly Leu Arg Ala Val Ser Arg Ile Thr Val Leu Tyr Val Ser Phe
 20 25 30
 Leu Pro Pro Glu Pro Tyr Leu Ile Ala Gln Gly Leu Met Arg Asn Asp
 35 40 45
 Ala Met Gln Leu Phe Ile Gly Phe Asp Val Gly Gly Thr His Ile Lys
 50 55 60
 His Gly Val Ile Asn Glu Asn Gly Glu Glu Leu Thr Ser Asp Glu Tyr
 65 70 75 80
 Asp Thr Pro Asp Asp Glu Ser Thr Phe Lys Gln Lys Trp Lys Ala Val
 85 90 95
 Val Asp Lys Tyr Arg Gln Glu His Glu Ile Val Gly Ile Gly Val Ser
 100 105 110
 Phe Pro Gly His Ile Asn His His Thr Gly Glu Ala Ala Lys Ala Gly
 115 120 125
 Ala Leu Asp Tyr Leu Asp Gly Glu Asn Leu Cys Glu Leu Phe Ala Gln
 130 135 140
 Leu Thr Asp Leu Pro Val Thr Thr Glu Asn Asp Ala Asn Cys Ala Ala
 145 150 155 160
 Leu Gly Glu Arg Trp Gln Gly Ala Gly Lys Asp Tyr Glu His Phe Val
 165 170 175
 Cys Ile Thr Ile Gly Thr Gly Ile Gly Gly Gly Ile Val Met Glu Gly
 180 185 190
 Asp Leu Tyr Arg Gly Ser His Tyr Arg Ala Gly Glu Phe Gly Val Leu
 195 200 205
 Pro Val Gly Asn Asn Gly Glu Pro Met His Glu Val Ala Ser Ala Ser
 210 215 220
 Gly Leu Met Lys Ala Cys Arg Arg Ala Leu Ala Val Ser Glu Asp Glu
 225 230 235 240
 Met Pro Asp Gly Glu Glu Leu Phe Arg Arg Met Asp Ser Asp Val His
 245 250 255
 Leu Arg Glu Ala Ile Glu Glu Trp Ala His Phe Leu Ser Arg Gly Ile
 260 265 270
 Tyr Ser Val Ile Ser Met Phe Asp Pro Gln Ala Val Leu Ile Gly Gly
 275 280 285
 Gly Ile Ser Glu Gln Glu Lys Ile Tyr Leu Leu Leu Asp Lys Tyr Leu
 290 295 300
 Gln Arg Phe Glu Glu Trp Glu Ala Leu Arg Val Pro Ile Leu Pro Cys
 305 310 315 320
 Glu Leu Gly Asn Gln Ala Gly Arg Leu Gly Ala Val Trp Leu Ala Lys
 325 330 335
 Gln Lys Gln Ala Arg Ser Ala
 340

<210> 9954

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 9954

Gln Ile Thr Val Leu Leu Pro Leu Pro Pro Gly Glu Arg Ala Arg Val
 1 5 10 15
 Arg Gly Lys Arg Ser Ser Pro Gln Pro Ser Arg Val Lys Thr Leu Met
 20 25 30
 Lys Val Asn Thr Met Lys Ala Leu His Phe Gly Ala Gly Asn Ile Gly
 35 40 45
 Arg Gly Phe Ile Gly Lys Leu Leu Ala Asp Ala Gly Ile Thr Leu Thr

50	55	60
Phe Ala Asp Val Asn Gln Val Val Leu Asp Ala Leu Asn Ala Arg His		
65	70	75
Ser Tyr Gln Val His Val Val Gly Glu Asn Glu Gln Val Glu Thr Val		80
	85	90
Ser Gly Val Asn Ala Val Ser Ser Ile Gly Asp Asp Val Ile Asp Leu		95
	100	105
Ile Ala Ser Val Asp Leu Val Thr Thr Ala Val Gly Pro Val Val Leu		110
	115	120
Glu Arg Ile Ala Pro Ala Val Ala Lys Gly Leu Ala Lys Arg Lys Ala		125
	130	135
Gln Gly Val Glu Thr Pro Leu Asn Ile Ile Ala Cys Glu Asn Met Val		140
145	150	155
Arg Gly Thr Thr Gln Leu Lys Gly His Val Leu Thr Ala Val Ala Asp		160
	165	170
Glu Asp Lys Ala Trp Val Glu Ala His Val Gly Phe Val Asp Ser Ala		175
	180	185
Val Asp Arg Ile Val Pro Pro Ser Ala Ser Ala Thr Asn Asp Pro Leu		190
	195	200
Glu Val Thr Val Glu Thr Phe Ser Glu Trp Ile Val Asp Lys Thr Gln		205
	210	215
Phe Lys Gly Ala Leu Pro Thr Ile Pro Gly Met Glu Leu Thr Asp Asn		220
225	230	235
Leu Met Ala Phe Val Glu Arg Lys Leu Phe Thr Leu Asn Thr Gly His		240
	245	250
Ala Ile Thr Ala Tyr Leu Gly Lys Leu Ala Gly His Gln Thr Ile Arg		255
	260	265
Asp Ala Ile Leu Asp Glu Asn Ile Arg Ala Val Val Lys Gly Ala Met		270
	275	280
Glu Glu Ser Gly Ala Val Leu Ile Lys Arg Tyr Gly Phe Asp Ala Asp		285
	290	295
Lys His Ala Ala Tyr Ile Gln Lys Ile Leu Gly Arg Phe Glu Asn Pro		300
305	310	315
Tyr Leu Lys Asp Asp Val Glu Arg Val Gly Arg Gln Pro Leu Arg Lys		320
	325	330
Leu Ser Ala Gly Asp Arg Leu Ile Lys Pro Leu Leu Gly Thr Leu Glu		335
	340	345
Tyr Gly Leu Pro His Ala Asn Leu Val Lys Gly Ile Ala Ala Met		350
	355	360
His Tyr Arg Ser Glu Gln Asp Pro Gln Ala Ile Glu Leu Ala Gln Leu		365
	370	375
Ile Asp Asp Lys Gly Ala Gln Ala Ala Leu Ala Gln Ile Ser Gly Leu		380
385	390	395
Asp Ala Asn Ser Asp Val Val Ala Glu Ala Val Ser Ala Tyr Asn Ala		400
	405	410
		415
Thr Lys		

<210> 9955

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 9955

Lys Lys Arg Phe Arg Ser Lys Pro Ala His Ile Gly Val Ser Phe Pro		
1	5	10
Val Asn Ser Pro Phe Ser Glu Leu Phe Val Met Lys Glu Val Glu Lys		15
	20	25
Asn Glu Ile Lys Arg Leu Ser Asp Arg Leu Asp Met Ile Arg His Gln		30
	35	40
Met Ala Gly Leu Ser Leu Val Asp Ser Ala Glu Lys Tyr Ala Glu Leu		45

50	55	60
Glu Lys Glu Ser Val Lys Leu Glu Ala Glu Ile Glu Arg Leu Arg Glu		
65	70	75
Val Lys Gly Gln Lys Leu Ser Lys Glu Ala Gln Lys Leu Met Asn Met		80
	85	90
Pro His Arg Arg Ala Ile Thr Lys Lys Glu Gln Ala Asp Met Gly Lys		95
	100	105
Leu Lys Lys Ser Val Arg Gly Leu Val Val Val His Pro Met Thr Glu		110
	115	120
Leu Gly Arg Glu Met Gly Leu Lys Glu Met Thr Gly Phe Cys Lys Thr		125
	130	135
Ala Phe		140
145		

<210> 9956

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9956

Thr Gln Pro Asp Ile Tyr Leu His Gly Gly Arg Asp His His Ile Ala		
1	5	10
Gly Leu Cys Leu Asn Leu Asp Asp Ser Met Ile Val Met Pro Arg Arg		15
	20	25
Leu Ser Glu Glu Ile Ala Thr Arg Val Arg Ala Leu Ile Glu Glu Gln		30
	35	40
Gln Leu Glu Ala Gly Met Arg Leu Pro Ala Glu Arg Gln Leu Ala Ala		45
	50	55
Gln Leu Gly Val Ser Arg Asn Ser Leu Arg Glu Ala Leu Ala Thr Leu		60
65	70	75
Val Ser Glu Gly Val Leu Leu Ser Arg Arg Gly Gly Gly Thr Phe Val		80
	85	90
Arg Trp Gln His Asp Asp Trp Ser Glu Gln Asn Ile Val Gln Pro Leu		95
	100	105
Lys Thr Leu Met Glu Asn Asp Pro Asp Tyr Ser Phe Asp Ile Leu Glu		110
	115	120
Ala Arg His Ala Ile Glu Thr Ser Thr Ala Trp His Ala Ala Met Arg		125
	130	135
Ala Thr Asp Ala Asp Lys Glu Lys Leu Lys Ala Cys Phe Glu Ala Thr		140
145	150	155
Gln Ser Ser Asp Pro Asp Ile Ala Ser Gln Ala Asp Val Arg Phe His		160
	165	170
Leu Ala Ile Ala Glu Ala Ser His Asn Val Val Leu Leu Gln Thr Met		175
	180	185
Arg Gly Phe Phe Asp Leu Leu Gln Ser Ser Val Lys Gln Ser Arg Gln		190
	195	200
Arg Met Tyr Leu Val Pro Pro Val Phe Ala Gln Leu Thr Glu Gln His		205
	210	215
Glu Ala Val Leu Asn Ala Ile Leu Ala Gly Asp Ala Glu Ala Ala Arg		220
225	230	235
Lys Ala Met Met Ala His Leu Gly Phe Val His Thr Thr Ile Lys Arg		240
	245	250
Phe Asp Glu Asp Gln Ala Arg Gln Ala Arg Ile Thr Arg Leu Pro Gly		255
	260	265
Glu Ser Asp Ile Ser Arg Glu Asn Lys Ala		270
	275	280

<210> 9957

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9957

Ile Ser Met Leu Glu Leu Ser Ile Ala Leu Pro Ile Arg Val Gln Asn
 1 5 10 15
 Gly Gly Leu Phe Ile Ser Arg Gly Val Gly Arg His Pro Ala Arg Lys
 20 25 30
 Leu Ser Ser Trp Glu Ile Ile Phe Val Glu Lys Gly Thr Leu Thr Ile
 35 40 45
 Gln Glu Glu Asn Thr Leu Phe Glu Val Asn Ala Gly Glu Ser Leu Leu
 50 55 60
 Leu Trp Pro Lys Arg Arg His Val Gly Val Glu Asp Phe Pro Gly Asp
 65 70 75 80
 Leu Lys Phe Tyr Trp Leu His Phe Glu Val Asp Glu Arg Leu Pro Val
 85 90 95
 Leu Pro Gly Ala Thr Pro Leu Ser Ile Glu Gln His Cys Ser Val Arg
 100 105 110
 Asp Pro Gln Tyr Val Ile Ala Leu Phe Arg Gln Phe Leu Ser Glu Gln
 115 120 125
 Glu Lys Leu Gln Arg Ser Gln Ala Leu Glu Ile Ile Leu Leu Leu Ile
 130 135 140
 Leu Gln Gln Ile Ser Leu Ser Pro Gly Tyr Glu Asp Lys Ala Asp Asp
 145 150 155 160
 Ala Gly Ala Ala Met Ala Trp Lys Ala Lys Gln Leu Ile Arg Thr His
 165 170 175
 Phe His Leu Pro Leu Ser Thr Ser Gln Leu Ala Lys Glu Leu His Cys
 180 185 190
 Asn Ala Asp Tyr Leu Gly Arg Val Phe Arg Arg Thr Phe His Leu Thr
 195 200 205
 Leu Thr Glu Ala Ile His Arg Gln Arg Val Arg Ala Glu Lys Leu
 210 215 220
 Leu Leu Asn Asp Ala Ala Ser Leu Thr Glu Val Ala Ala Arg Cys Gly
 225 230 235 240
 Phe Asn Asp Val Gly Tyr Phe Arg Gln Ile Phe Ser Lys His Thr Gly
 245 250 255
 Leu Thr Pro Ala Val Trp Lys Arg Arg Tyr Cys Lys Glu His Ile Asn
 260 265 270
 Ser Gly
 275

<210> 9958

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9958

Asn Gly Leu Ile Thr Ser Phe Asp Arg Arg Ser Arg Ser Leu Arg Leu
 1 5 10 15
 Ile Ile Ser His Ile Ile Ala Gly Pro Met Pro Pro Gly Glu Arg Leu
 20 25 30
 Ile Met Pro Phe Met Leu Val Met Ala Val Met Ile Phe Ser Leu Ala
 35 40 45
 Met Ile Met Pro Gln Arg Leu Pro Gly Arg Pro Ser Leu Glu Arg Leu
 50 55 60
 Met Gln Arg Met Ile Phe Gly Phe His Ser Gly Arg Ala Ser Leu Lys
 65 70 75 80
 Met Ile Pro Gly Asn Gly Thr Pro
 85

<210> 9959

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 9959

Asp Ser Ala Leu Lys Phe Leu Lys Lys Ile Arg Cys Trp Asn Val Tyr
 1 5 10 15
 Ile Arg Pro Gly Asp Leu Met Ile Ser Thr Pro Ile Arg Arg Tyr Gly
 20 25 30
 Ala Ala Ile Leu Met Leu Leu Thr Met Ala Phe Ser Gly Glu Val Leu
 35 40 45
 Ala Lys Thr His Thr Asp Thr Thr Ser Lys Lys Ala His Val Ile Lys
 50 55 60
 Thr Thr Ser Ser Lys Val Ser Ser Lys Gln Glu Tyr Ser Arg Asn Ser
 65 70 75 80
 Ala Lys Ser Ser Ser Leu Pro Asp Leu Arg Lys Tyr Pro Ser Gly Thr
 85 90 95
 Pro Arg Lys Lys Ala Phe Leu Arg Thr Val Met Pro Tyr Ile Lys Ser
 100 105 110
 Gln Asn Ala Ala Ile Thr Ala Asp Arg Asn Trp Leu Ile Ser Lys Gln
 115 120 125
 Tyr Asp Ser Arg Trp Ser Pro Ser Glu Arg Thr Arg Leu Lys Asp Ile
 130 135 140
 Ala Lys Arg Tyr Lys Val Lys Trp Ser Gly Asn Thr Arg Arg Val Pro
 145 150 155 160
 Trp Asn Ser Leu Leu Glu Arg Val Asp Ile Ile Pro Gly Ser Met Val
 165 170 175
 Ala Thr Met Ala Ala Ala Glu Ser Gly Trp Gly Thr Ser Lys Leu Ala
 180 185 190
 Arg Asn Asn Asn Asn Leu Phe Gly Met Lys Cys Val Lys Gly Arg Cys
 195 200 205
 Thr Asn Ala Pro Gly Lys Val Lys Gly Tyr Ser Gln Phe Glu Ser Val
 210 215 220
 Lys Asp Ser Val Asn Ala Tyr Val Val Asn Leu Asn Thr His Pro Ala
 225 230 235 240
 Tyr Ser Ser Phe Arg Lys Ser Arg Ala Gln Leu Arg Lys Ala Asp Gln
 245 250 255
 Glu Val Thr Ala Thr Ala Met Ile His Lys Leu Lys Gly Tyr Ser Thr
 260 265 270
 Gln Gly Gln Arg Tyr Asn Asn Tyr Leu Phe Ser Met Tyr Gln Asp Asn
 275 280 285
 Gln Arg Leu Ile Ala Ala His Met
 290 295

<210> 9960

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 9960

Glu His Asp Ala Arg Phe Glu Ala Gly Leu Met Glu Ser Trp Leu Ile
 1 5 10 15
 Pro Ala Glu Pro Val Thr Phe Val Glu Glu Ile Lys Lys Ser Arg Phe
 20 25 30
 Ile Thr Leu Leu Ala His Thr Asp Gly Val Glu Ala Ala Lys Ala Phe
 35 40 45
 Val Glu Ser Val Arg Ala Gln His Pro Asp Ala Arg His His Cys Val
 50 55 60
 Ala Trp Val Ala Gly Pro Pro Asp Asp Ser Gln Gln Leu Gly Phe Ser
 65 70 75 80
 Asp Asp Gly Glu Pro Ala Gly Thr Ala Gly Lys Pro Met Leu Ser Gln
 85 90 95
 Leu Met Gly Ser Gly Val Gly Glu Ile Thr Ala Val Val Val Arg Tyr

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<210> 9961
<211> 221
<212> PRT
<213> Enterobacter cloacae
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<210> 9962
<211> 202
<212> PRT
<213> Enterobacter cloacae
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<400> 9962
Phe Thr Glu Gly Lys Val Phe Gln Met Lys Ile Lys Asn Val Ala Leu
1 5 10 15
Ala Ile Ala Ala Gly Leu Leu Ser Ser Gln Ser Val Leu Ala
20 25 30

Ser Ser Asp Ser Gly Val Asn Ala Ser Leu Asp Thr Gly Ala Gly Ser
 35 40 45
 Gln Ser Thr Gly Gly Val Ile Asn Phe Thr Gly Lys Ile Thr Leu Ile
 50 55 60
 Ser Cys Asp Ile Thr Pro Ala Ser Lys Asn Lys Thr Val Asp Leu Gly
 65 70 75 80
 Ala Trp Ala Lys Ser Tyr Phe Asp Asp His Asn Glu Thr Thr Pro Arg
 85 90 95
 Glu Phe Lys Ile Asn Val Glu Asn Cys Pro Glu Thr Val Glu Ser Val
 100 105 110
 Ala Val Leu Phe Asp Gly Thr Lys Asp Thr Val Asn Asp Thr Leu Leu
 115 120 125
 Gln Val Thr Pro Cys Glu Gly Met Ala Thr Gly Val Arg Val Lys Leu
 130 135 140
 Tyr Asn Ser Asp Arg Ser Thr Ala Ile Lys Pro Gly Thr Val Ser Glu
 145 150 155 160
 Thr Thr Ala Pro Asp Asp Glu Gly Asn Ala Glu Leu Thr Phe Tyr Ala
 165 170 175
 Ala Leu Asp Lys Asp Gly Thr Glu Ile Tyr Ala Gly Asp Val Asn Ala
 180 185 190
 Val Ser Asn Phe Leu Met Val Tyr Asn
 195 200

<210> 9963

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 9963

Phe His Cys Gln Pro Pro Glu Ile Ile Met Met Lys Arg Leu Ser
 1 5 10 15
 Tyr Ile Met Leu Thr Ala Leu Met Val Ser Ser Ala Ser Val Ser Ala
 20 25 30
 Gly Val Val Met Gly Gly Thr Arg Ile Val Tyr Pro Gln His Ser Lys
 35 40 45
 Glu Val Ala Phe Ser Val Ser Asn Met Glu Ser Ala Val Pro Tyr Leu
 50 55 60
 Ile Gln Ser Trp Val Glu Gly Asp Gly Gln Gly Lys Asn Asn Ala Ala
 65 70 75 80
 Pro Phe Ile Val Thr Pro Pro Leu Phe Arg Leu Asp Pro Glu Gln Thr
 85 90 95
 Asn Thr Leu Arg Ile Gln Tyr Thr Gly Ala Pro Leu Pro Thr Asp Arg
 100 105 110
 Glu Ser Val Phe Trp Leu Asp Ile Lys Ala Ile Ala Pro Lys Pro Lys
 115 120 125
 Glu Ser Ser Asn Glu Leu Gln Val Asn Val Lys Ser Lys Phe Lys Ile
 130 135 140
 Phe Tyr Arg Pro Asp Asn Leu Lys Gly Asp Ala Ala Thr Ala Trp Gln
 145 150 155 160
 Lys Ile Thr Phe Ser Arg Thr Gly Lys Gly Leu Lys Ala Ala Asn Pro
 165 170 175
 Thr Pro Tyr Tyr Val Ser Phe Tyr Arg Leu Thr Val Gly Gly His Lys
 180 185 190
 Ile Glu Gln Pro Gly Met Ile Gly Pro Gly Glu Thr Arg Glu Trp Pro
 195 200 205
 Val Ser Ala Ser Gly Gly Val Ser Trp Ser Ala Ile Asn Asp Phe Gly
 210 215 220
 Ala Ile Thr Ala Thr His Thr Gln Pro Leu
 225 230 235

<210> 9964

<211> 204
 <212> PRT
 <213> Enterobacter cloacae

<400> 9964

Ala	Met	Lys	Leu	Ile	Gly	Ser	Tyr	Thr	Ser	Pro	Phe	Val	Arg	Lys	Ile
1				5					10					15	
Ser	Ile	Leu	Leu	Leu	Glu	Lys	Gly	Ile	Glu	Phe	Glu	Phe	Val	Asn	Glu
			20					25					30		
Gln	Pro	Tyr	Asn	Ala	Glu	Asn	Gly	Val	Ala	Gln	Tyr	Asn	Pro	Leu	Gly
		35					40					45			
Lys	Val	Pro	Ala	Leu	Val	Thr	Asp	Glu	Gly	Asp	Tyr	Trp	Phe	Asp	Ser
	50					55					60				
Pro	Ile	Ile	Ala	Glu	Tyr	Ile	Glu	Leu	Leu	Gly	Val	Ala	Pro	Ala	Met
65					70					75					80
Leu	Pro	Ala	Asp	Pro	Lys	Ala	Ala	Leu	Ala	Met	Lys	Gln	Ile	Glu	Ala
			85						90					95	
Leu	Ala	Asp	Gly	Ile	Met	Asp	Ala	Ala	Leu	Thr	Ser	Val	Arg	Glu	Gln
			100					105					110		
Ala	Arg	Pro	Ala	Ala	Gln	Gln	Ser	Glu	Asn	Glu	Leu	Leu	Arg	Gln	Arg
		115					120					125			
Glu	Lys	Ile	Ser	Arg	Ser	Leu	Asp	Met	Cys	Glu	Gln	Leu	Ile	Arg	Asp
	130					135					140				
Gly	Lys	Ile	Gln	Ser	Asp	Ser	Leu	Asn	Leu	Ala	Thr	Ile	Ala	Ile	Ala
145					150					155					160
Cys	Ala	Ile	Gly	Tyr	Leu	Asn	Phe	Arg	Arg	Val	Ser	Pro	Gly	Trp	Cys
			165					170						175	
Val	Asp	Arg	Pro	Leu	Leu	Val	Lys	Leu	Ala	Glu	Thr	Leu	Phe	Gln	Arg
			180					185					190		
Glu	Ser	Phe	Ala	Arg	Thr	Glu	Pro	Pro	Lys	Ala					
		195					200								

<210> 9965
 <211> 622
 <212> PRT
 <213> Enterobacter cloacae

<400> 9965

Ser	Ala	Val	Ser	Gly	Asp	Asp	Val	Glu	Met	Ile	Ile	Ala	Thr	Ala	Gly
1				5					10					15	
His	Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Leu	Gln	Ala	Ile	Thr	Gly	Val
			20					25					30		
Asn	Ala	Asp	Arg	Leu	Pro	Glu	Glu	Lys	Lys	Arg	Gly	Met	Thr	Ile	Asp
		35					40					45			
Leu	Gly	Tyr	Ala	Tyr	Trp	Pro	Gln	Pro	Asp	Gly	Arg	Val	Leu	Gly	Phe
	50					55					60				
Ile	Asp	Val	Pro	Gly	His	Glu	Lys	Phe	Leu	Ser	Asn	Met	Leu	Ala	Gly
65					70					75					80
Val	Gly	Gly	Ile	Asp	His	Ala	Leu	Leu	Val	Val	Ala	Cys	Asp	Asp	Gly
				85					90					95	
Val	Met	Ala	Gln	Thr	Arg	Glu	His	Leu	Ala	Ile	Leu	Gln	Leu	Thr	Gly
			100					105					110		
Asn	Pro	Gln	Leu	Thr	Val	Ala	Leu	Thr	Lys	Ala	Asp	Arg	Val	Asp	Glu
		115					120					125			
Ala	Arg	Ile	Asp	Glu	Val	Arg	Gln	Glu	Val	Leu	Ala	Ala	Leu	Ser	Glu
	130					135					140				
Tyr	Gly	Phe	Lys	Asp	Val	Ala	Leu	Phe	Val	Thr	Val	Ala	Thr	Glu	Gly
145					150					155					160
Arg	Gly	Ile	Asp	Ala	Leu	Arg	Asn	His	Leu	Gln	Gln	Ile	Pro	Ser	Arg
			165					170						175	
Glu	Gln	Ala	Ser	His	His	Arg	Phe	Arg	Leu	Ala	Ile	Asp	Arg	Ala	Phe

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<210> 9966
<211> 293
<212> PRT
<213> Enterobacter cloacae
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<400> 9966

Asp Arg Glu Leu Lys His Thr Leu Arg Tyr His Gln Gly Ala Ile Asn
 1 5 10 15
 Arg Ser Tyr Leu Met Ser Ile Lys Glu Ser Glu Met Thr Gln Glu Lys
 20 25 30
 Glu Arg Pro Ala Gly Ser Gln Ser Leu Phe Arg Gly Leu Met Leu Ile
 35 40 45
 Glu Ile Leu Ser Asn Tyr Pro Asn Gly Cys Pro Leu Ala His Leu Ser
 50 55 60
 Glu Leu Ala Gly Leu Asn Lys Ser Thr Val His Arg Leu Leu Gln Gly
 65 70 75 80
 Leu Gln Ser Cys Gly Tyr Val Thr Pro Ala Pro Ala Ala Gly Ser Tyr
 85 90 95
 Arg Leu Thr Thr Lys Phe Ile Ala Val Gly Gln Lys Ala Leu Ser Ser
 100 105 110
 Leu Asn Ile Ile His Val Ala Ala Pro His Leu Glu Ala Leu Asn Ile
 115 120 125
 Ala Thr Gly Glu Thr Val Asn Phe Ser Ser Arg Glu Asp Asp His Ala
 130 135 140
 Ile Leu Ile Tyr Lys Leu Glu Pro Thr Thr Gly Met Leu Arg Thr Arg
 145 150 155 160
 Ala Tyr Ile Gly Gln His Met Pro Leu Tyr Cys Ser Ala Met Gly Lys
 165 170 175
 Ile Tyr Met Ala Phe Gly His Gln Asp Tyr Val Ala Ser Tyr Trp Glu
 180 185 190
 Ser His Gln Glu Gln Ile Gln Pro Leu Thr Arg Asn Thr Ile Thr Glu
 195 200 205
 Leu Ser Ala Met Tyr Asp Glu Leu Ala Glu Ile Arg Asp His Ser Met
 210 215 220
 Ala Met Asp Lys Glu Glu Asn Glu Leu Gly Val Ser Cys Ile Ala Val
 225 230 235 240
 Pro Val Phe Asp Ile His Gly Arg Val Pro Tyr Ala Ile Ser Ile Ser
 245 250 255
 Leu Ser Thr Ser Arg Met Lys Gln Val Gly Glu Lys Asn Leu Leu Lys
 260 265 270
 Pro Leu Arg Asp Thr Ala Glu Ala Ile Ser Lys Glu Leu Gly Phe Asn
 275 280 285
 Val Arg Glu Ala
 290

<210> 9967

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9967

Leu Met Asn Gln Phe Ile Leu Ala Asp Pro Glu Lys Cys Ile Gly Cys
 1 5 10 15
 Arg Thr Cys Glu Val Ala Cys Met Met Ser His Gln Ser Ser Ala Thr
 20 25 30
 Pro Val Ala Phe Thr Ser Arg Ile Arg Val Val Lys Gly Glu Thr Phe
 35 40 45
 Thr Thr Ala Val Gly Cys His Gln Cys Glu Asp Ala Pro Cys Ala Asn
 50 55 60
 Val Cys Pro Thr Gly Ala Ile His Arg Ala Ala Gly Ala Trp Leu Val
 65 70 75 80
 Lys Gln Ser Arg Cys Ile Gly Cys Lys Ser Cys Met Val Ala Cys Pro
 85 90 95
 Phe Gly Ala Met Gln Val Arg Val Val Glu Asp Arg Val Gln Ala Leu
 100 105 110
 Lys Cys Asp Leu Cys Ala His Arg Glu Gly Gly Pro Ala Cys Val Glu

115 120 125
 Ala Cys Pro Thr His Ala Leu Arg Cys Ile Asp Pro Ala Ser Leu Arg
 130 135 140
 Ala Glu Arg Leu Arg Asn Met Ala
 145 150

<210> 9968

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 9968

Ile Thr Ala Phe Met Pro Gly Lys Arg Cys Ala Thr Gly His Phe Cys
 1 5 10 15
 Gln Arg Ser His His Met Tyr Ile Gly Ile Asp Leu Gly Thr Ser Gly
 20 25 30
 Val Lys Ala Ile Leu Leu Ser Glu Gln Gly Asp Val Leu Ala Thr Gln
 35 40 45
 Thr Glu Lys Leu Gln Val Ser Arg Pro His Pro Leu Trp Ser Glu Gln
 50 55 60
 Asp Pro Glu Gln Trp Trp Gln Ala Thr Asp Arg Ala Met Thr Ala Leu
 65 70 75 80
 Gly Glu Gln His Ser Leu Arg Asp Val Lys Ala Leu Gly Ile Ala Gly
 85 90 95
 Gln Met His Gly Ala Thr Leu Leu Asp Ser Gln His Arg Val Leu Arg
 100 105 110
 Pro Ala Ile Leu Trp Asn Asp Gly Arg Cys Ala Glu Glu Cys Ala Ile
 115 120 125
 Leu Glu Glu Arg Val Pro Ala Ser Arg Glu Ile Thr Gly Asn Leu Met
 130 135 140
 Met Pro Gly Phe Thr Ala Pro Lys Leu Leu Trp Val Gln Arg His Glu
 145 150 155 160
 Pro Asp Ile Phe Arg Gln Val Ala Lys Val Leu Leu Pro Lys Asp Tyr
 165 170 175
 Leu Arg Phe Arg Met Thr Gly Asp Phe Ala Ser Asp Met Ser Asp Ala
 180 185 190
 Ala Gly Thr Met Trp Leu Asp Val Ala Lys Arg Asp Trp Ser Glu Ala
 195 200 205
 Met Leu Asp Ala Cys Gln Leu Thr Arg Asp His Met Pro Ala Leu Phe
 210 215 220
 Glu Gly Ser Glu Ile Thr Gly Ala Leu Gln Pro Ser Val Ala Glu Arg
 225 230 235 240
 Trp Asn Met Pro Ala Val Pro Val Ile Ala Gly Gly Gly Asp Asn Ala
 245 250 255
 Ala Gly Ala Val Gly Val Gly Met Val Glu Ala Gly Gln Ala Met Leu
 260 265 270
 Ser Leu Gly Thr Ser Gly Val Tyr Phe Ala Val Ser Asp Gly Tyr Arg
 275 280 285
 Ser Asn Pro Gly Ser Ala Val His Ser Phe Cys His Ala Leu Pro Gly
 290 295 300
 Lys Trp His Leu Met Ser Val Met Leu Ser Ala Ala Ser Cys Leu Asp
 305 310 315 320
 Trp Ala Ala Lys Leu Thr Gly Met Ala Asp Val Pro Ala Leu Ile Ala
 325 330 335
 Ala Ala Gln Gln Ala Asp Asp Asn Ala Gly Ala Val Trp Phe Leu Pro
 340 345 350
 Tyr Leu Ser Gly Glu Arg Thr Pro His Asn Asn Pro Glu Ala Lys Gly
 355 360 365
 Val Phe Phe Gly Leu Thr His Gln His Gly Pro Ala Glu Leu Ala Arg
 370 375 380
 Ala Val Leu Glu Gly Val Gly Tyr Ala Leu Ala Asp Gly Met Asp Val

385		390		395		400									
Val	His	Asp	Cys	Gly	Leu	Thr	Pro	Ser	Ser	Ile	Thr	Leu	Ile	Gly	Gly
			405						410					415	
Gly	Ala	Arg	Ser	Ser	Tyr	Trp	Arg	Gln	Met	Leu	Ser	Asp	Ile	Ser	Gly
			420					425					430		
Leu	Gln	Leu	Asp	Tyr	Arg	Thr	Gly	Gly	Asp	Val	Gly	Pro	Ala	Leu	Gly
		435					440					445			
Ala	Ala	Arg	Leu	Ala	Gln	Ile	Ala	Leu	Asn	Pro	Asp	Lys	Pro	Leu	His
	450					455					460				
Gln	Leu	Leu	Pro	Gln	Leu	Ser	Leu	Glu	Gln	Gln	His	Arg	Pro	Asp	Ala
465					470					475					480
Lys	Asn	His	Ala	Arg	Tyr	Ala	Glu	Arg	Arg	Asp	Val	Phe	Arg	Lys	Ile
			485						490					495	
Tyr	Arg	Gln	Leu	Leu	Pro	Leu	Met	Ser							
			500					505							

<210> 9969

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 9969

Asn	His	Thr	Tyr	Pro	Ala	Arg	Asn	Thr	Met	Gln	Lys	Phe	Asp	Thr	Lys
1				5					10					15	
Thr	Phe	Gln	Gly	Leu	Ile	Leu	Thr	Leu	Gln	Asp	Tyr	Trp	Ala	Ser	Gln
			20					25					30		
Gly	Cys	Thr	Ile	Val	Gln	Pro	Leu	Asp	Met	Glu	Val	Gly	Ala	Gly	Thr
		35					40					45			
Ser	His	Pro	Met	Thr	Ser	Leu	Arg	Ala	Leu	Gly	Pro	Glu	Pro	Met	Ala
	50					55					60				
Thr	Ala	Tyr	Val	Gln	Pro	Ser	Arg	Arg	Pro	Thr	Asp	Gly	Arg	Tyr	Gly
65					70					75					80
Glu	Asn	Pro	Asn	Arg	Leu	Gln	His	Tyr	Tyr	Gln	Phe	Gln	Val	Val	Ile
			85						90					95	
Lys	Pro	Ser	Pro	Asp	Asn	Ile	Gln	Glu	Leu	Tyr	Leu	Gly	Ser	Leu	Lys
			100					105					110		
Glu	Leu	Gly	Met	Asp	Pro	Thr	Ile	His	Asp	Ile	Arg	Phe	Val	Glu	Asp
		115					120					125			
Asn	Trp	Glu	Asn	Pro	Thr	Leu	Gly	Ala	Trp	Gly	Leu	Gly	Trp	Glu	Val
		130				135						140			
Trp	Leu	Asn	Gly	Met	Glu	Val	Thr	Gln	Phe	Thr	Tyr	Phe	Gln	Gln	Val
145					150					155					160
Gly	Gly	Leu	Glu	Cys	Lys	Pro	Ile	Thr	Gly	Glu	Ile	Thr	Tyr	Gly	Leu
			165						170					175	
Glu	Arg	Leu	Ala	Met	Tyr	Ile	Gln	Gly	Val	Asp	Ser	Val	Tyr	Asp	Leu
			180					185					190		
Val	Trp	Ser	Asp	Gly	Pro	Leu	Gly	Lys	Thr	Thr	Tyr	Gly	Asp	Val	Phe
		195					200					205			
His	Gln	Asn	Glu	Val	Glu	Gln	Ser	Thr	Tyr	Asn	Phe	Glu	Tyr	Ala	Asp
		210				215					220				
Val	Asp	Phe	Leu	Phe	Thr	Cys	Phe	Glu	Gln	Tyr	Glu	Lys	Glu	Ala	Gln
225					230					235					240
Gln	Leu	Leu	Ala	Leu	Glu	Thr	Pro	Leu	Pro	Leu	Pro	Ala	Tyr	Glu	Arg
			245						250					255	
Ile	Leu	Lys	Ala	Ala	His	Ser	Phe	Asn	Leu	Leu	Asp	Ala	Arg	Lys	Ala
			260					265					270		
Ile	Ser	Val	Thr	Glu	Arg	Gln	Arg	Tyr	Ile	Leu	Arg	Ile	Arg	Thr	Leu
		275					280					285			
Thr	Lys	Ala	Val	Ala	Glu	Ala	Tyr	Tyr	Ala	Ser	Arg	Glu	Ala	Leu	Gly
	290					295					300				
Phe	Pro	Met	Cys	Asn	Arg	Asn	Lys								

305

310

<210> 9970

<211> 693

<212> PRT

<213> Enterobacter cloacae

<400> 9970

Glu	Ala	Ala	Met	Ser	Glu	Lys	Thr	Phe	Leu	Val	Glu	Ile	Gly	Thr	Glu
1				5					10					15	
Glu	Leu	Pro	Pro	Lys	Ala	Leu	Arg	Ser	Leu	Ala	Glu	Ser	Phe	Ala	Ala
			20					25					30		
Asn	Val	Thr	Ala	Glu	Leu	Asp	Asn	Ala	Gly	Leu	Ala	His	Gly	Lys	Ile
		35					40					45			
Glu	Trp	Phe	Ala	Ala	Pro	Arg	Arg	Leu	Ala	Leu	Lys	Val	Ala	Asn	Leu
	50					55					60				
Ala	Ala	Ser	Gln	Pro	Asp	Arg	Glu	Val	Glu	Lys	Arg	Gly	Pro	Ala	Ile
65					70					75					80
Ala	Gln	Ala	Phe	Asp	Ala	Glu	Gly	Lys	Pro	Ser	Lys	Ala	Ala	Glu	Gly
				85					90					95	
Trp	Ala	Arg	Gly	Cys	Gly	Ile	Thr	Val	Asp	Gln	Ala	Glu	Arg	Leu	Thr
			100					105						110	
Thr	Asp	Lys	Gly	Glu	Trp	Leu	Leu	Tyr	Arg	Ala	His	Val	Lys	Gly	Glu
		115					120					125			
Ser	Ala	Glu	Ala	Leu	Leu	Pro	Asp	Met	Ile	Ala	Thr	Ser	Leu	Ala	Lys
		130				135						140			
Leu	Pro	Ile	Pro	Lys	Leu	Met	Arg	Trp	Gly	Ala	Ser	Asp	Val	His	Phe
145					150					155					160
Val	Arg	Pro	Val	His	Thr	Val	Thr	Leu	Leu	Gly	Asp	Thr	Val	Ile	
				165					170					175	
Pro	Ala	Thr	Ile	Leu	Gly	Val	Ala	Ser	Asp	Arg	Val	Ile	Arg	Gly	His
			180					185						190	
Arg	Phe	Met	Gly	Glu	Pro	Glu	Phe	Thr	Ile	Asp	Asn	Ala	Asp	Gln	Tyr
		195					200					205			
Pro	Gln	Ile	Leu	Leu	Glu	Arg	Gly	Lys	Val	Ile	Ala	Asp	Tyr	Glu	Gln
		210				215					220				
Arg	Lys	Ala	Lys	Ile	Lys	Ala	Asp	Ala	Glu	Glu	Ala	Ala	Arg	Lys	Ile
225					230					235					240
Gly	Gly	Asn	Ala	Asp	Leu	Ser	Asp	Ser	Leu	Leu	Glu	Glu	Val	Thr	Ser
				245					250					255	
Leu	Val	Glu	Trp	Pro	Val	Val	Leu	Thr	Ala	Lys	Phe	Glu	Glu	Lys	Phe
			260					265						270	
Leu	Ala	Val	Pro	Ala	Glu	Ala	Leu	Val	Tyr	Thr	Met	Lys	Gly	Asp	Gln
		275					280					285			
Lys	Tyr	Phe	Pro	Val	Tyr	Ala	Asn	Asp	Gly	Lys	Leu	Leu	Pro	Asn	Phe
	290					295					300				
Ile	Phe	Val	Ala	Asn	Ile	Glu	Ser	Lys	Asp	Pro	Ser	Gln	Ile	Ile	Ser
305					310						315				320
Gly	Asn	Glu	Lys	Val	Val	Arg	Pro	Arg	Leu	Ala	Asp	Ala	Glu	Phe	Phe
				325					330					335	
Phe	Asn	Thr	Asp	Arg	Lys	Lys	Arg	Leu	Glu	Asp	Asn	Leu	Pro	Arg	Leu
			340					345					350		
Gln	Thr	Val	Leu	Phe	Gln	Gln	Gln	Leu	Gly	Thr	Leu	Arg	Asp	Lys	Thr
		355						360				365			
Asp	Arg	Ile	Ala	Glu	Leu	Ser	Gly	Trp	Ile	Ala	Arg	Glu	Ile	Gly	Ala
	370					375						380			
Asp	Val	Asn	His	Ala	Thr	Arg	Ala	Gly	Leu	Leu	Ser	Lys	Cys	Asp	Leu
385					390					395					400
Met	Thr	Asn	Met	Val	Phe	Glu	Phe	Thr	Asp	Thr	Gln	Gly	Val	Met	Gly
				405					410					415	
Met	His	Tyr	Ala	Arg	His	Asp	Gly	Glu	Ala	Glu	Asp	Val	Ala	Val	Ala

			420					425				430			
Leu	Asn	Glu	Gln	Tyr	Gln	Pro	Arg	Phe	Ala	Gly	Asp	Asp	Leu	Pro	Ser
		435					440					445			
Asn	Pro	Val	Ala	Cys	Ala	Val	Ala	Ile	Ala	Asp	Lys	Met	Asp	Thr	Leu
		450					455					460			
Ala	Gly	Ile	Phe	Gly	Ile	Gly	Gln	His	Pro	Lys	Gly	Asp	Lys	Asp	Pro
465					470						475				480
Phe	Ala	Leu	Arg	Arg	Ala	Ala	Leu	Gly	Val	Leu	Arg	Ile	Ile	Val	Glu
				485							490				495
Lys	Asn	Leu	Asn	Leu	Asp	Leu	Gln	Thr	Leu	Thr	Glu	Glu	Ala	Val	Arg
			500					505					510		
Leu	Tyr	Gly	Asp	Lys	Leu	Thr	Asn	Ala	Lys	Val	Val	Asp	Asp	Val	Ile
		515					520					525			
Asp	Phe	Met	Leu	Gly	Arg	Phe	Arg	Ala	Trp	Tyr	Gln	Asp	Glu	Gly	Tyr
		530				535						540			
Ser	Val	Asp	Thr	Ile	Gln	Ala	Val	Leu	Ala	Arg	Arg	Pro	Thr	Arg	Pro
545					550					555					560
Ala	Asp	Phe	Asp	Ala	Arg	Met	Lys	Ala	Val	Ser	His	Phe	Arg	Thr	Leu
				565						570					575
Glu	Ala	Ala	Ser	Ala	Leu	Ala	Ala	Ala	Asn	Lys	Arg	Val	Ser	Asn	Ile
			580						585					590	
Leu	Ala	Lys	Ser	Asp	Glu	Thr	Leu	Asn	Asp	Arg	Val	Asn	Ala	Ala	Thr
		595					600					605			
Leu	Lys	Glu	Pro	Glu	Glu	Ile	Ser	Leu	Ala	Met	Gln	Val	Val	Val	Leu
		610				615					620				
Arg	Asp	Lys	Leu	Glu	Pro	Tyr	Phe	Ala	Glu	Gly	Arg	Tyr	Gln	Glu	Ala
625					630						635				640
Leu	Val	Glu	Leu	Ala	Glu	Leu	Arg	Asp	Val	Ile	Asp	Ala	Phe	Phe	Glu
				645					650						655
Lys	Val	Met	Val	Asn	Val	Glu	Asp	Lys	Glu	Leu	Arg	Ile	Asn	Arg	Leu
			660					665					670		
Ser	Met	Leu	Glu	Lys	Leu	Arg	Glu	Leu	Phe	Leu	Arg	Val	Ala	Asp	Ile
		675					680						685		
Ser	Leu	Leu	Gln												
		690													

<210> 9971

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 9971

Leu	Glu	Val	Lys	Lys	Thr	Lys	Gly	Arg	Met	Met	Asp	Ser	Leu	Ala	Ser
1				5					10					15	
Leu	Tyr	Lys	Asn	His	Ile	Val	Thr	Leu	Gln	Glu	Arg	Thr	Arg	Asp	Val
			20					25					30		
Leu	Ala	Arg	Phe	Lys	Leu	Asp	Ala	Leu	Leu	Ile	His	Ser	Gly	Glu	Leu
		35					40					45			
Met	Asn	Thr	Phe	Leu	Asp	Asp	His	Ala	Tyr	Pro	Phe	Lys	Val	Asn	Pro
		50				55					60				
Gln	Phe	Lys	Ala	Trp	Val	Pro	Val	Thr	Gln	Val	Pro	Asn	Cys	Trp	Leu
65				70						75					80
Leu	Val	Asp	Gly	Val	Asn	Lys	Pro	Lys	Leu	Trp	Phe	Tyr	Leu	Pro	Val
				85					90					95	
Asp	Tyr	Trp	His	Asn	Val	Glu	Pro	Leu	Pro	Thr	Ser	Phe	Trp	Thr	Glu
			100					105					110		
Glu	Ile	Asp	Val	Ile	Ala	Leu	Pro	Lys	Ala	Asp	Gly	Ile	Gly	Ser	Gln
		115					120					125			
Leu	Pro	Ala	Ala	Arg	Gly	Asn	Ile	Gly	Tyr	Ile	Gly	Pro	Val	Pro	Glu
		130				135					140				
Arg	Ala	Leu	Gly	Leu	Asp	Ile	Pro	Ala	Asp	Lys	Leu	Asn	Pro	Lys	Gly

145		150		155		160									
Val	Leu	Asp	Tyr	Leu	His	Tyr	Tyr	Arg	Ala	Tyr	Lys	Thr	Asp	Tyr	Glu
				165					170					175	
Leu	Tyr	Cys	Met	Arg	Glu	Ala	Gln	Lys	Thr	Ala	Val	Asn	Gly	His	Arg
			180					185					190		
Ala	Ala	His	Glu	Ala	Phe	Gln	Ser	Gly	Met	Ser	Glu	Phe	Asp	Ile	Asn
		195					200					205			
Gln	Ala	Tyr	Leu	Thr	Ala	Thr	Gly	His	Arg	Asp	Thr	Asp	Val	Pro	Tyr
	210					215					220				
Ser	Asn	Ile	Val	Ala	Leu	Asn	Glu	His	Ala	Ser	Val	Leu	His	Tyr	Thr
225					230					235					240
Lys	Leu	Asp	His	Gln	Val	Pro	Ala	Glu	Met	Arg	Ser	Phe	Leu	Leu	Asp
				245					250					255	
Ala	Gly	Ala	Glu	Tyr	Asn	Gly	Tyr	Ala	Ala	Asp	Leu	Thr	Arg	Thr	Trp
			260					265					270		
Ala	Ala	Asn	Ala	Asp	Thr	Asp	Phe	Ala	Gln	Leu	Ile	Lys	Asp	Val	Asn
		275					280					285			
Asp	Glu	Gln	Leu	Ala	Leu	Ile	Gly	Thr	Met	Lys	Ala	Gly	Thr	Ser	Tyr
	290					295				300					
Val	Asp	Tyr	His	Ile	Gln	Phe	His	Gln	Arg	Ile	Ala	Lys	Leu	Leu	Arg
305					310					315					320
Lys	His	Gln	Ile	Ile	Lys	Asp	Met	Ser	Glu	Glu	Ala	Met	Val	Glu	Asn
				325					330					335	
Asp	Leu	Thr	Gly	Pro	Phe	Met	Pro	His	Gly	Ile	Gly	His	Pro	Leu	Gly
			340					345					350		
Leu	Gln	Val	His	Asp	Val	Ala	Gly	Phe	Met	Gln	Asp	Asp	Thr	Gly	Thr
		355					360					365			
His	Leu	Ala	Ala	Pro	Ser	Lys	Tyr	Pro	Tyr	Leu	Arg	Cys	Thr	Arg	Val
	370					375				380					
Leu	Ala	Pro	Arg	Met	Val	Leu	Thr	Ile	Glu	Pro	Gly	Ile	Tyr	Phe	Ile
385					390					395					400
Glu	Ser	Leu	Leu	Ala	Pro	Trp	Arg	Glu	Gly	Gln	Phe	Ser	Lys	His	Phe
				405					410					415	
Asn	Trp	Glu	Lys	Ile	Glu	Ala	Leu	Lys	Pro	Tyr	Gly	Gly	Ile	Arg	Ile
			420					425					430		
Glu	Asp	Asn	Val	Val	Ile	His	Glu	Asn	Ser	Ile	Glu	Asn	Met	Thr	Arg
		435					440					445			
Asp	Leu	Lys	Leu	Ala											
	450														

<210> 9972

<211> 848

<212> PRT

<213> Enterobacter cloacae

<400> 9972

Ala	Gly	Arg	Leu	Leu	Met	Ile	Leu	Val	Pro	Ser	Pro	Pro	Pro	Thr	Pro
1				5					10					15	
Ser	Leu	Phe	Lys	Ile	Met	Pro	Phe	Arg	Leu	Phe	Arg	Tyr	Ala	Pro	Leu
			20					25					30		
Ser	Val	Leu	Leu	Leu	Ser	Phe	Ser	Arg	Ala	Gly	Met	Ala	Glu	Asp	Tyr
			35				40					45			
Phe	Asp	Pro	Ala	Ala	Leu	Glu	Leu	Ser	Ser	Thr	Glu	Gln	Lys	Thr	Ala
	50					55					60				
Asp	Leu	His	Tyr	Phe	Ser	Glu	Lys	Gly	Gly	Gln	Met	Pro	Gly	Thr	Trp
65					70					75					80
Leu	Val	Thr	Leu	Glu	Ile	Asn	Gly	Arg	Glu	Glu	Arg	His	Gln	Glu	Ile
				85					90					95	
Thr	Phe	Val	Asn	Glu	Lys	Gly	Ser	Leu	Gln	Pro	Val	Phe	Ser	Val	Ser
			100					105					110		
Leu	Leu	Glu	Ala	Leu	Ser	Val	Asn	Val	Gly	Ala	Ile	Pro	Ala	Phe	Ser

[illegible]

Leu Ala Asn Arg Asn Leu Asn Tyr Ser Val Gln Gln Ser Lys Ala Ser
 610 615 620
 Glu Gly Gln Ala Asp Ser Thr Ser Leu Ala Leu Gln Tyr Asn Gly Gly
 625 630 635 640
 Tyr Gly Asn Val Ser Leu Gly Tyr Asp His Ser Arg Ser Gly Ser Asn
 645 650 655
 Ala Ser Leu Gly Leu Ala Gly Gly Val Ile Ala Thr Gln Tyr Gly Val
 660 665 670
 Thr Leu Ser Glu Pro Leu Gly Asp Thr Val Ala Leu Leu Arg Val Pro
 675 680 685
 Gly Ala Ala Asn Val Glu Pro Glu Gly Tyr Asn Gly Ile His Thr Asp
 690 695 700
 Ser Arg Gly Tyr Ala Val Met Pro Thr Leu Ser Ala Tyr Arg Lys Asn
 705 710 715 720
 Thr Val Ser Leu Asp Thr Ala Thr Leu Gly Glu Asn Val Asp Val Glu
 725 730 735
 Gln Ser Gly Leu Thr Leu Ile Pro Thr Ser Gly Ala Val Val Leu Ala
 740 745 750
 Asn Tyr Lys Thr His Ile Gly Tyr Arg Val Leu Phe Ser Leu Arg Tyr
 755 760 765
 His Gly Glu Pro Leu Pro Phe Gly Ala Gln Ala Glu Val Val Glu Gln
 770 775 780
 Asn Arg His Ser Ala Asn Arg Ser Met Val Ala Asp Gly Gly Gln Ala
 785 790 795 800
 Tyr Leu Ser Gly Val Pro Glu Arg Gly Thr Leu Arg Val Thr Trp Tyr
 805 810 815
 Glu Asn Gly Glu Gln Gln Gln Cys Gln Thr Pro Phe Arg Leu Gly Lys
 820 825 830
 Ala His Met Ala Pro Gly Ile Ala Thr Leu Ser Leu Glu Cys His
 835 840 845

<210> 9973

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 9973

Arg Asn Ile Met Arg Arg Phe Ile His Trp Phe Phe Tyr Leu Ser Leu
 1 5 10 15
 Leu Ser Leu Phe Gly Met Leu Ser Phe His Ala His Ala Gln Thr Ser
 20 25 30
 Thr Cys Arg Thr Thr Arg Asp Gln Trp Val Val Gln Val Pro Tyr Ala
 35 40 45
 Ile Gly Tyr Ala Pro Gly Thr Ser Asp Trp Thr Pro Ile Ser Ala Pro
 50 55 60
 Ile Gln Ser Thr Gly Ala Asp Phe Tyr Ser Cys Asp Gly Gly Asn Asp
 65 70 75 80
 Pro Trp Arg Ser Ile Gly Phe Val Glu Leu Asp Asn Pro Val Gly Thr
 85 90 95
 Val Val Gly Glu Asp Gly Ala Ser Arg His Val Tyr Lys Thr Gln Ile
 100 105 110
 Asp Gly Ile Gly Tyr Ala Leu Gly Phe Arg Glu Gln Gln Tyr Cys Gly
 115 120 125
 Ala Asp Ala Val Arg Tyr Ile Asp Gly Thr Ser Pro Val Asp Gly Asn
 130 135 140
 Glu Ser Arg Arg Ile Cys Asp Ala Ser Gln Asn Pro Ala Phe Ala Ser
 145 150 155 160
 Ala Pro Thr Tyr Lys Leu Gln Phe Trp Val Val Phe Tyr Lys Ile Pro
 165 170 175
 Thr Thr Ser Pro Met Pro Asp Asp Asn Ala Asn Ser Gln Glu Gln Asn
 180 185 190

Val	Gly	Ser	Leu	Ile	Leu	Gln	Ala	Gly	Glu	Asn	Gln	Ala	Ser	Ala	Thr
	195					200						205			
Asn	Val	Ala	Thr	Pro	Val	Gln	Ile	His	Leu	Ala	Ser	Phe	Thr	Val	Arg
	210					215					220				
Arg	Thr	Ser	Cys	Ser	Val	Gly	Ser	Arg	Ser	Ile	Leu	Val	Pro	Met	Gly
225					230					235					240
Ser	Val	Ser	Gln	Arg	Glu	Phe	His	Gly	Ile	Gly	Phe	Arg	Ala	Gly	Gly
			245						250					255	
Gly	Arg	Phe	Ser	Ile	Pro	Val	Thr	Cys	Glu	Asn	Asn	Thr	Ala	Val	Lys
		260						265					270		
Met	Gly	Phe	Phe	Gly	Asp	Thr	Thr	Pro	Gly	Asn	Asp	Arg	Ala	Leu	Ala
	275						280					285			
Leu	Thr	Lys	Gln	Glu	Asp	Ser	Ala	Ser	Gly	Val	Gly	Ile	Glu	Leu	Leu
	290					295					300				
Tyr	Gly	Asp	Asn	Thr	Gly	Ser	Val	Gln	Gly	Gln	Val	Val	Pro	Trp	Asn
305					310					315					320
Thr	Pro	Gln	Val	Ser	Ala	Leu	Gly	Gln	Val	Gly	Asp	Asn	Gln	Thr	Gln
			325						330					335	
Thr	Phe	Trp	Phe	Asp	Ala	His	Tyr	Ile	Gln	Thr	Glu	Ala	Asn	Val	Thr
		340						345					350		
Ala	Gly	Lys	Ala	Asp	Ala	Met	Ala	Thr	Phe	Asn	Leu	Ile	Tyr	Asn	
		355					360					365			

<210> 9974

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9974

Ile	Trp	Arg	Arg	Ser	Pro	Ser	Pro	Ala	Pro	Ser	Ala	Thr	Ser	Ile	Ser
1				5					10					15	
Ala	Ala	Ser	Arg	Arg	Ala	Gly	Ala	Trp	Ile	Val	Arg	Cys	Trp	Ser	Asn
			20					25					30		
Trp	Arg	Arg	Arg	Ser	Ser	Ser	Ala	Lys	Val	Ser	Pro	Gly	Leu	Asn	His
			35				40					45			
Gln	Arg	Leu	Asp	Ala	Gly	Tyr	Asn	Thr	Ser	Trp	Arg	Glu	Ala	Val	Gln
	50				55					60					
Ser	Pro	His	Met	Leu	Thr	Pro	Ser	Pro	Val	Gly	Arg	Gly	Glu	Asp	Ile
	65				70					75				80	
Tyr	Ser	Pro	Gly	Ala	Phe	Met	Thr	Thr	His	His	Ser	Leu	Tyr	Ser	Gln
			85					90						95	
Ile	Pro	Ala	Thr	Asp	Arg	Leu	Leu	Arg	Asp	Pro	Arg	Ile	Thr	Ala	Val
			100					105					110		
Leu	Glu	Gln	Phe	Gly	His	Thr	Ala	Thr	Val	Asp	Met	Leu	Arg	Gln	Leu
	115						120					125			
Gln	Asp	Asp	Ala	Arg	Arg	His	Ile	Gln	Ala	Glu	Asn	Ala	Leu	Pro	Gly
	130					135					140				
Trp	Cys	Glu	Ala	Trp	Ala	Gln	Glu	Val	Glu	Arg	Arg	Leu	Ser	Lys	His
145					150					155					160
Ala	Gln	Ser	Ala	Leu	Arg	Pro	Val	Ile	Asn	Leu	Thr	Gly	Thr	Val	Leu
			165						170					175	
His	Thr	Asn	Leu	Gly	Arg	Ala	Gln	Gln	Ala	Glu	Glu	Ala	Ile	Asp	Ala
			180					185					190		
Val	Thr	Arg	Ala	Met	Arg	Ser	Pro	Val	Thr	Leu	Glu	Tyr	Asp	Leu	Asp
		195					200					205			
Gly	Ala	Gly	Arg	Gly	His	Arg	Asp	Arg	Ala	Leu	Ala	Asp	Leu	Leu	Cys
	210					215					220				
Gln	Ile	Thr	Gly	Ala	Glu	Asp	Ala	Cys	Ile	Val	Asn	Asn	Asn	Ala	Ala
225					230					235					240
Ala	Val	Leu	Leu	Met	Leu	Ala	Ala	Thr	Ala	Ser	Gly	Lys	Glu	Val	Val
				245					250					255	

Val Ser Arg Gly Glu Leu Val Glu Ile Gly Gly Ala Phe Arg Ile Pro
 260 265 270
 Asp Val Met Arg Gln Ala Gly Cys Thr Leu His Glu Val Gly Thr Thr
 275 280 285
 Asn Arg Thr His Ala Lys Asp Tyr Arg Ala Ala Val Asn Glu Asn Thr
 290 295 300
 Ala Leu Leu Met Lys Val His Thr Ser Asn Tyr His Ile Glu Gly Phe
 305 310 315 320
 Thr Lys Thr Val Glu Glu Ala Glu Leu Ala Ala Ile Gly Arg Glu Leu
 325 330 335
 Asn Val Pro Val Ile Ala Asp Leu Gly Ser Gly Ser Leu Val Asp Met
 340 345 350
 Arg Gln Tyr Gly Leu Pro Lys Glu Pro Met Val Gln Glu Met Val Ala
 355 360 365
 Ala Gly Val Ser Leu Val Ser Phe Ser Gly Asp Lys Leu Leu Gly Gly
 370 375 380
 Pro Gln Ala Gly Ile Ile Val Gly Arg Arg Glu Leu Ile Ala Gln Leu
 385 390 395 400
 Gln Gln His Pro Leu Lys Arg Ala Leu Arg Ala Asp Lys Met Thr Leu
 405 410 415
 Ala Ala Leu Glu Ala Thr Leu Arg Leu Tyr Leu His Pro Glu Lys Leu
 420 425 430
 Ala Asp Arg Leu Pro Thr Leu Arg Leu Leu Ser Arg Asp Ala Ala Ser
 435 440 445
 Val Arg Ala Gln Ala Glu Ala Leu Leu Pro Gln Val Ala Pro His Tyr
 450 455 460
 Pro Glu Phe Glu Val Arg Ile Glu Pro Cys Leu Ser Gln Ile Gly Ser
 465 470 475 480
 Gly Ser Leu Pro Val Asp Arg Leu Pro Ser Glu Ala Leu Thr Phe Thr
 485 490 495
 Pro Arg Asp Gly Arg Gly Ser Gln Leu Glu Ala Leu Ser Ala Arg Trp
 500 505 510
 Arg Ala Leu Pro Thr Pro Val Ile Gly Arg Ile Gly Asp Gly Arg Met
 515 520 525
 Trp Leu Asp Leu Arg Cys Leu Glu Asp Glu Val Arg Phe Leu Glu Met
 530 535 540
 Met Leu Lys
 545

<210> 9975

<211> 547

<212> PRT

<213> Enterobacter cloacae

<400> 9975

Ser Thr Val Ile Arg Asp Thr Ala Arg Lys Pro Val Thr Asp Trp Arg
 1 5 10 15
 Glu Asn His Gln Pro Glu Leu Pro Leu Tyr Thr Tyr Cys Lys Glu
 20 25 30
 Thr Val Met Thr Asn Asn Pro Pro Ser Ser Arg Ile Gln Pro Gly Glu
 35 40 45
 Tyr Gly Phe Pro Leu Lys Leu Lys Pro Arg Tyr Asp Asn Phe Ile Gly
 50 55 60
 Gly Asp Trp Val Ala Pro Val Asp Gly Glu Tyr Tyr Ser Asn Leu Thr
 65 70 75 80
 Pro Val Thr Gly Gln Pro Leu Cys Glu Ile Ala Ser Ser Gly Lys Arg
 85 90 95
 Asp Ile Asp Leu Ala Leu Asp Ala Ala His Lys Ala Lys Asp Lys Trp
 100 105 110
 Gly Gln Thr Ser Val Gln Asp Arg Ala Ala Ile Leu Phe Lys Ile Ala
 115 120 125

Asp	Arg	Ile	Glu	Gln	Asn	Leu	Glu	Leu	Leu	Ala	Thr	Ala	Glu	Thr	Trp
130						135					140				
Asp	Asn	Gly	Lys	Pro	Ile	Arg	Glu	Thr	Met	Ala	Ala	Asp	Val	Pro	Leu
145					150					155					160
Ala	Ile	Asp	His	Phe	Arg	Tyr	Phe	Ala	Ser	Cys	Ile	Arg	Ala	Gln	Glu
			165						170					175	
Gly	Gly	Ile	Ser	Glu	Val	Asp	Lys	Asp	Thr	Val	Ala	Tyr	His	Phe	His
			180					185					190		
Glu	Pro	Leu	Gly	Val	Val	Gly	Gln	Ile	Ile	Pro	Trp	Asn	Phe	Pro	Leu
	195					200						205			
Leu	Met	Ala	Ser	Trp	Lys	Met	Ala	Pro	Ala	Leu	Ala	Ala	Gly	Asn	Cys
	210					215					220				
Val	Val	Leu	Lys	Pro	Ala	Arg	Leu	Thr	Pro	Leu	Ser	Val	Leu	Leu	Leu
225					230					235					240
Met	Glu	Val	Ile	Gly	Asp	Leu	Leu	Pro	Pro	Gly	Val	Ile	Asn	Val	Val
			245						250					255	
Asn	Gly	Ala	Gly	Gly	Glu	Ile	Gly	Glu	Tyr	Leu	Ala	Thr	Ser	Lys	Arg
			260					265					270		
Ile	Ala	Lys	Val	Ala	Phe	Thr	Gly	Ser	Thr	Glu	Val	Gly	Gln	Gln	Ile
	275						280					285			
Met	Gln	Tyr	Ala	Thr	Gln	Asn	Ile	Ile	Pro	Val	Thr	Leu	Glu	Leu	Gly
	290					295					300				
Gly	Lys	Ser	Pro	Asn	Ile	Phe	Phe	Ala	Asp	Val	Met	Asp	Glu	Glu	Asp
305					310					315					320
Ala	Phe	Phe	Asp	Lys	Ala	Leu	Glu	Gly	Phe	Ala	Leu	Phe	Ala	Phe	Asn
			325						330					335	
Gln	Gly	Glu	Val	Cys	Thr	Cys	Pro	Ser	Arg	Ala	Leu	Val	Gln	Glu	Ser
			340					345					350		
Ile	Tyr	Glu	Arg	Phe	Met	Glu	Arg	Ala	Ile	Arg	Arg	Val	Glu	Ser	Ile
	355						360					365			
Arg	Ser	Gly	Asn	Pro	Leu	Asp	Asn	Val	Thr	Gln	Met	Gly	Ala	Gln	Val
	370					375					380				
Ser	His	Gly	Gln	Leu	Glu	Thr	Ile	Leu	Asn	Tyr	Ile	Asp	Ile	Gly	Lys
385					390					395					400
Lys	Glu	Gly	Ala	Asp	Val	Leu	Thr	Gly	Gly	Arg	Arg	Lys	Val	Leu	Gly
			405						410					415	
Gly	Asp	Leu	Gln	Glu	Gly	Tyr	Tyr	Leu	Glu	Pro	Thr	Ile	Leu	Phe	Gly
			420					425					430		
Lys	Asn	Asn	Met	Arg	Val	Phe	Gln	Glu	Glu	Ile	Phe	Gly	Pro	Val	Leu
	435						440					445			
Ala	Val	Thr	Thr	Phe	Lys	Thr	Met	Asp	Glu	Ala	Leu	Glu	Leu	Ala	Asn
	450					455					460				
Asp	Thr	Gln	Tyr	Gly	Leu	Gly	Ala	Gly	Val	Trp	Ser	Arg	Asn	Gly	Asn
465					470					475					480
Leu	Ala	Tyr	Lys	Met	Gly	Arg	Gly	Ile	Gln	Ala	Gly	Arg	Val	Trp	Thr
			485						490					495	
Asn	Cys	Tyr	His	Ala	Tyr	Pro	Ala	His	Ala	Ala	Phe	Gly	Gly	Tyr	Lys
			500					505					510		
Gln	Ser	Gly	Ile	Gly	Arg	Glu	Thr	His	Lys	Met	Met	Leu	Glu	His	Tyr
	515						520					525			
Gln	Gln	Thr	Lys	Cys	Leu	Leu	Val	Ser	Tyr	Ser	Asp	Lys	Pro	Leu	Gly
	530					535					540				
Leu	Phe														
545															

<210> 9976

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9976

Val Ala Ala Lys Asp Gly Tyr Ser Phe Leu Asn Ala Leu Arg Val Lys
 1 5 10 15
 Arg Leu Asn His Leu Ile Arg Gln Ala Gln Val Val Thr Pro Asp
 20 25 30
 His Leu Ala His His Arg Arg Ala Asp Ala Ala Arg Arg Lys Ala Asp
 35 40 45
 Asn Ala Val His Val Gly Asn Gly Gly Asp Asp Phe Leu Val Ser Asn
 50 55 60
 Asp Asn Ala Ala Thr Ala Ala Arg Gln Ala Gln Leu Gly Glu Ala His
 65 70 75 80
 Ala Glu Asp Asp Ile Arg Val Pro
 85

<210> 9977

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9977

Arg Thr Arg Phe Ala Glu Asp Asp Pro Arg Glu Arg Tyr Ala Ile Gly
 1 5 10 15
 Val Ile Asp His Gln Arg Asp Ala Val Leu Ile Arg Gln Arg Ile Gln
 20 25 30
 Leu His Gln Leu Val Val Gly Asp His Val Pro Arg Arg Val Gly Gly
 35 40 45
 Thr Arg Tyr Ala Asp His Ala Arg Leu Phe Thr Asp Met Gln Met Phe
 50 55 60
 Lys Ile Asp Val Ile Phe Glu Leu Ala Leu Trp Gln Gln Leu Asp Ile
 65 70 75 80
 Arg Thr Cys Gly Asn Lys Gln Val Phe Phe Glu Ala Gly Ile Gly Ile
 85 90 95
 Ala Asn Ile Leu Arg Cys Gln Arg Glu Gln His Phe Phe Arg Gly Ala
 100 105 110
 Val Gly Ala Ala Ser Gly Glu Gln Ile Glu
 115 120

<210> 9978

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 9978

Asn Asn Val Ile Glu Gln Pro Pro Met Ser Ile His Tyr Tyr Ser Arg
 1 5 10 15
 Ser Lys Thr Thr Pro His Thr Leu Ile Met Glu Leu Asn Met Gln Ala
 20 25 30
 Tyr Phe Asp Gln Leu Asp Arg Val Arg Phe Glu Gly Thr Lys Thr Thr
 35 40 45
 Asn Pro Leu Ala Phe Arg His Tyr Asn Pro Asp Glu Leu Val Leu Gly
 50 55 60
 Lys Arg Met Glu Asp His Leu Arg Phe Ala Ala Cys Tyr Trp His Thr
 65 70 75 80
 Phe Cys Trp Asn Gly Ala Asp Met Phe Gly Val Gly Ser Phe Asp Arg
 85 90 95
 Pro Trp Gln Gln Pro Gly Glu Ala Ile Glu Leu Ala Lys Arg Lys Ala
 100 105 110
 Asp Val Ala Phe Glu Phe Phe His Lys Leu Asn Val Pro Tyr Tyr Cys
 115 120 125
 Phe His Asp Val Asp Val Ser Pro Glu Gly Ala Ser Leu Lys Glu Tyr
 130 135 140
 Leu Asn Asn Phe Ala Gln Met Val Asp Val Leu Ala Glu Lys Gln Gln

145 150 155 160
 Gln Ser Gly Val Lys Leu Leu Trp Gly Thr Ala Asn Cys Phe Thr Asn
 165 170 175
 Pro Arg Tyr Gly Ala Gly Ala Ala Thr Asn Pro Asp Pro Glu Val Phe
 180 185 190
 Ser Trp Ala Ala Thr Gln Val Val Thr Ala Met Asn Ala Thr His Gln
 195 200 205
 Leu Gly Gly Glu Asn Tyr Val Leu Trp Gly Gly Arg Glu Gly Tyr Glu
 210 215 220
 Thr Leu Leu Asn Thr Asp Leu Arg Gln Glu Arg Glu Gln Ile Gly Arg
 225 230 235 240
 Phe Met Gln Met Val Val Asp His Lys His Lys Ile Gly Phe Arg Gly
 245 250 255
 Thr Leu Leu Ile Glu Pro Lys Pro Gln Glu Pro Thr Lys His Gln Tyr
 260 265 270
 Asp Tyr Asp Val Ala Thr Val Tyr Gly Phe Leu Lys Gln Phe Gly Leu
 275 280 285
 Glu Lys Glu Ile Lys Val Asn Ile Glu Ala Asn His Ala Thr Leu Ala
 290 295 300
 Gly His Ser Phe His His Glu Ile Ala Ser Ala Ile Ala Leu Gly Ile
 305 310 315 320
 Phe Gly Ser Val Asp Ala Asn Arg Gly Asp Pro Gln Leu Gly Trp Asp
 325 330 335
 Thr Asp Gln Phe Pro Asn Ser Val Glu Glu Asn Ala Leu Val Met Tyr
 340 345 350
 Glu Ile Ile Lys Ala Gly Gly Phe Thr Thr Gly Gly Leu Asn Phe Asp
 355 360 365
 Ala Lys Val Arg Arg Gln Ser Thr Asp Lys Tyr Asp Leu Phe Tyr Gly
 370 375 380
 His Ile Gly Ala Met Asp Thr Met Ala Leu Ala Leu Lys Val Ala Ala
 385 390 395 400
 Arg Met Ile Glu Asp Gly Glu Leu Asp Lys Arg Val Ala Lys Arg Tyr
 405 410 415
 Ser Gly Trp Asn Ser Glu Leu Gly Gln Gln Ile Leu Lys Gly Gln Leu
 420 425 430
 Ser Leu Ala Glu Ile Ala Lys Tyr Ala Glu Gln His Gln Leu Ala Pro
 435 440 445
 Gln His Gln Ser Gly His Gln Glu Leu Leu Glu Asn Leu Val Asn His
 450 455 460
 Tyr Leu Phe Asp Lys
 465 470

<210> 9979

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 9979

Ile Pro Lys Glu Ala Ala Glu Met His Phe Arg Ala Ile Thr Arg Ile
 1 5 10 15
 Val Gly Leu Leu Val Ile Leu Phe Ser Gly Thr Met Ile Ile Pro Gly
 20 25 30
 Leu Val Ala Leu Ile Tyr Arg Asp Gly Ala Gly Arg Ala Phe Thr Gln
 35 40 45
 Thr Phe Phe Val Ala Leu Thr Ile Gly Ser Leu Leu Trp Trp Pro Asn
 50 55 60
 Arg Arg Glu Lys Gly Glu Leu Lys Ser Arg Glu Gly Phe Leu Ile Val
 65 70 75 80
 Val Leu Phe Trp Thr Val Leu Gly Ser Val Gly Ala Leu Pro Phe Ile
 85 90 95
 Phe Ser Glu Gln Pro Asn Leu Thr Val Thr Asp Ala Phe Phe Glu Ser

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<210> 9980
<211> 99
<212> PRT
<213> Enterobacter cloacae
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<400> 9980															
Gly	Gly	Glu	Met	Gly	Glu	Leu	Leu	Asn	Ser	Gly	Leu	Leu	Ser	Ile	Ala
1				5					10					15	
Ser	Leu	Val	Met	Ser	Leu	Val	Val	Leu	Val	Val	Gly	Leu	Val	Leu	Trp
			20					25					30		
Phe	Phe	Val	Asn	Arg	Ala	Ser	Ser	Arg	Thr	Asn	Glu	Gln	Ile	Glu	Leu


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<210> 9981
<211> 172
<212> PRT
<213> Enterobacter cloacae
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Thr	His	Ser	Gln	Gln	Ser	Val	Lys	Pro	Met	Lys	Tyr	Asp	Thr	Ser	
1			5				10					15			
Glu	Leu	Cys	Asp	Ile	Tyr	Gln	Glu	Asp	Val	Asn	Val	Val	Glu	Pro	Leu
		20					25					30			
Phe	Ser	Asn	Phe	Gly	Gly	Arg	Ser	Ser	Phe	Gly	Gly	Gln	Ile	Ile	Thr
		35					40					45			
Val	Lys	Cys	Phe	Glu	Asp	Asn	Gly	Leu	Leu	Tyr	Asp	Leu	Leu	Glu	Glu
	50					55					60				
Asn	Gly	Arg	Gly	Arg	Val	Leu	Leu	Val	Asp	Gly	Gly	Gly	Ser	Val	Arg
65					70					75					80
Arg	Ala	Leu	Ile	Asp	Ala	Asp	Leu	Ala	Arg	Leu	Ala	Val	Gln	Asn	Glu
				85					90					95	
Trp	Glu	Gly	Ile	Val	Val	Tyr	Gly	Ser	Val	Arg	Gln	Val	Asp	Asp	Leu
			100					105					110		
Glu	Asp	Leu	Asp	Ile	Gly	Ile	Gln	Ala	Ile	Ala	Ala	Ile	Pro	Val	Gly
		115					120					125			
Ala	Ala	Gly	Glu	Gly	Ile	Gly	Glu	Ser	Asp	Val	Arg	Val	Asn	Phe	Gly
		130					135					140			
Gly	Val	Thr	Phe	Phe	Ser	Gly	Asp	His	Leu	Tyr	Ala	Asp	Asn	Thr	Gly
145					150					155					160
Ile	Ile	Leu	Ser	Glu	Asp	Ala	Leu	Asp	Ile	Glu					
				165					170						

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<210> 9982
<211> 234
<212> PRT
<213> Enterobacter cloacae
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Thr	Met	Asn	Lys	Ile	Leu	Leu	Val	Asp	Asp	Asp	Arg	Glu	Leu	Thr	Ser
1				5				10						15	
Leu	Leu	Lys	Glu	Leu	Leu	Asp	Met	Glu	Gly	Phe	Asn	Val	Leu	Val	Ala
			20					25					30		
His	Asp	Gly	Glu	Gln	Ala	Leu	Ser	Leu	Leu	Asp	Asp	Ser	Ile	Asp	Leu
		35					40					45			
Leu	Leu	Leu	Asp	Val	Met	Met	Pro	Lys	Lys	Asn	Gly	Ile	Asp	Thr	Leu
	50					55				60					
Lys	Glu	Leu	Arg	Gln	Thr	His	Gln	Thr	Pro	Val	Ile	Met	Leu	Thr	Ala
65				70						75					80
Arg	Gly	Ser	Glu	Leu	Asp	Arg	Val	Leu	Gly	Leu	Glu	Leu	Gly	Ala	Asp
			85					90						95	
Asp	Tyr	Leu	Pro	Lys	Pro	Phe	Asn	Asp	Arg	Glu	Leu	Val	Ala	Arg	Ile
		100						105					110		
Arg	Ala	Ile	Leu	Arg	Arg	Ser	His	Trp	Ser	Glu	Gln	Gln	Gln	Asn	Thr
		115					120					125			

Asp	Asn	Ser	Ser	Pro	Thr	Leu	Glu	Val	Asp	Ser	Leu	Ser	Leu	Asn	Pro
130						135					140				
Gly	Arg	Gln	Glu	Ala	Ser	Phe	Asp	Gly	Glu	Thr	Leu	Glu	Leu	Thr	Gly
145					150					155					160
Thr	Glu	Phe	Thr	Leu	Leu	Tyr	Leu	Leu	Ala	Gln	His	Leu	Gly	Gln	Val
				165					170					175	
Val	Ser	Arg	Glu	His	Leu	Ser	Gln	Glu	Val	Leu	Gly	Lys	Arg	Leu	Thr
			180					185					190		
Pro	Phe	Asp	Arg	Ala	Ile	Asp	Met	His	Ile	Ser	Asn	Leu	Arg	Arg	Lys
		195				200						205			
Leu	Pro	Glu	Arg	Lys	Asp	Gly	His	Pro	Trp	Phe	Lys	Thr	Leu	Arg	Gly
	210					215					220				
Arg	Gly	Tyr	Leu	Met	Val	Ser	Ala	Ser							
225					230										

<210> 9983

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 9983

Glu	Ile	Phe	Ala	Lys	Arg	Gly	Gly	Asp	Glu	Glu	Val	Ser	Leu	Phe	Arg
1				5					10					15	
Lys	Phe	Gly	Phe	Pro	Val	Leu	Ile	Val	Leu	Ala	Arg	Ile	Val	Ala	Gln
			20					25					30		
Arg	Ala	Ile	Gly	Pro	Ala	Val	Asp	Phe	Leu	Phe	Ser	Leu	Leu	Val	Thr
		35					40					45			
Arg	Lys	Pro	Glu	Ile	Gly	Gln	Arg	Gln	Leu	Thr	Val	Asp	Leu	His	Phe
	50				55						60				
Gly	Asp	Gly	Thr	Arg	Ala	Ala	Phe	Val	Leu	Pro	Tyr	Leu	Ala	Cys	
65				70					75					80	
Lys	His	Ile	His	Arg	Val	Met	His	Leu	His	Ser	Phe	Arg	Tyr	Lys	Lys
			85					90						95	
Ser	Glu	Ser	Ser	Asp	Ser	Leu	Leu	Thr	Gly	Val	Asn	Ala	Thr	Leu	Phe
			100					105					110		
Phe	Ser	Gly	Glu	Thr	Arg	Cys	Cys	Phe	Val	Pro	Val	His	His	Val	Pro
		115					120					125			
Glu	Gly	Phe	Asp	Val	Val	Arg	Ala	Thr	Val	Leu	Glu	Leu	Gln	Val	Val
	130					135					140				
Ser	Val	Phe	Pro	His	Val	Gln	Thr	Gln	Asn	Trp	Glu	Ala	Gly	Cys	Ala
145				150					155						160
Arg	Asp	Ser	Phe	Thr	His	Lys	Arg	Gly	Ile	Leu	Val	Ser	Gly	Arg	Asn
			165					170						175	
Asp	Arg	Gln	Phe	Val	Thr	Phe	Gln	Asn	Gln	Pro	Arg	Pro	Ala	Arg	Ala
		180						185					190		
Glu	Thr	Gly	Cys	Ser	Gly	Phe	Phe	Glu	Phe	Arg	Phe	Glu	Val	Val	Asn
		195					200					205			
Gly	Thr	Glu	Val	Thr	Leu	Asp	Ser	Arg	Phe	Gln	Val	Ala	Leu	Lys	Gly
	210					215					220				
Gly	Ala	Gly	Phe	Gln	Ala	Phe	Pro	Glu	Gln	Ala	Val	Val	Ser	Val	Thr
225				230						235					240
Ala	Arg	Val	Val	Ala	Gln	His	Gly	Phe	Leu	Val	Cys	Trp	Gln	Leu	Val
			245					250						255	
Gln	Phe	Gly	Asp	Gln	Leu	Phe	Asn	Arg	Gln	Ile	Ser	Glu	Leu	Trp	Gln
		260					265						270		
Ala	Phe	Gln	Arg	Ser	Ile	Arg	Val	Val	His	Val	Gly	Leu	Val	Val	Phe
		275					280					285			
Ser	Val	Met	Asp	Phe	His	Arg	Leu	Leu	Val	Glu	Met	Arg	Phe	Gln	Cys
	290					295					300				
Val	Val	Gly	Ile	Arg	Gln	Gly	Trp	Gln	Cys	Ile	Thr	His	Asn	Pro	Leu
305					310					315					320

His Tyr Cys Arg Ala Ala Gln Leu Leu Met Pro Arg Lys Gln Leu Val
 325 330 335

His Tyr Ser
 340

<210> 9984

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 9984

Leu Pro Phe Lys Thr Lys Val Arg Gln Pro Ser Glu Gly Ser Gln Thr
 1 5 10 15
 Ala Ser Phe Leu His Ser Ser Ser Arg Arg Glu Ala Ser Gly Tyr Lys
 20 25 30
 Asn Asp Glu Asp Val Lys Met Asn His Ala Ile Thr Met Gly Ile Phe
 35 40 45
 Trp His Leu Ile Gly Ala Ala Ser Ala Ala Cys Phe Tyr Ala Pro Phe
 50 55 60
 Lys Lys Val Lys Gly Trp Ser Trp Glu Thr Met Trp Ser Val Gly Gly
 65 70 75 80
 Thr Val Ser Trp Leu Ile Leu Pro Trp Thr Ile Ser Ala Met Leu Leu
 85 90 95
 Pro Asp Phe Trp Gly Tyr Phe Ser Ser Phe Asn Ala Ser Thr Leu Leu
 100 105 110
 Pro Val Phe Leu Phe Gly Ala Met Trp Gly Ile Gly Asn Ile Asn Tyr
 115 120 125
 Gly Leu Thr Met Arg Tyr Leu Gly Met Ser Met Gly Ile Gly Ile Ala
 130 135 140
 Ile Gly Ile Thr Leu Ile Val Gly Thr Leu Met Thr Pro Ile Leu Asn
 145 150 155 160
 Gly Asn Phe Asp Val Leu Ile Asn Thr Gln Gly Gly Arg Met Thr Leu
 165 170 175
 Leu Gly Val Leu Val Ala Val Ile Gly Val Gly Ile Val Thr Arg Ala
 180 185 190
 Gly Gln Leu Lys Glu Arg Lys Met Gly Ile Lys Ala Glu Glu Phe Asn
 195 200 205
 Leu Lys Lys Gly Leu Leu Leu Ala Val Met Cys Gly Ile Phe Ser Ala
 210 215 220
 Gly Met Ser Phe Ala Met Asn Ala Ala Lys Pro Met His Asp Ala Ala
 225 230 235 240
 Ala Ala Leu Gly Val Asp Pro Leu Tyr Val Ala Leu Pro Ser Tyr Val
 245 250 255
 Val Ile Met Gly Gly Gly Ala Leu Val Asn Leu Gly Phe Cys Phe Ile
 260 265 270
 Arg Leu Ala Lys Val Asn Asn Leu Ser Val Lys Ala Asp Phe Ser Leu
 275 280 285
 Ala Lys Pro Leu Ile Val Thr Asn Val Leu Leu Ser Ala Leu Gly Gly
 290 295 300
 Leu Met Trp Tyr Leu Gln Phe Phe Phe Tyr Ala Trp Gly His Ala Ser
 305 310 315 320
 Ile Pro Ala Gln Tyr Asp Tyr Met Ser Trp Met Leu His Met Ser Phe
 325 330 335
 Tyr Val Leu Cys Gly Gly Leu Val Gly Leu Val Leu Lys Glu Trp Asn
 340 345 350
 Asn Ala Gly Arg Arg Pro Val Gly Val Leu Ser Leu Gly Cys Val Val
 355 360 365
 Ile Ile Ile Ala Ala Asn Ile Val Gly Leu Gly Met Ala Asn
 370 375 380

<210> 9985

<400> 9985

<210> 9986

$\langle 211 \rangle$ 821

<212> PRT

<213> Enterobacter cloacae

<400> 9986

His 1	Gly	Pro	Thr	Val 5	Ala	Ser	Leu	Ala	Pro 10	Thr	Phe	Gly	Arg	Gly 15	Ala
Met	Thr	Asn	His	Trp	Val	Asp	Ile	Lys	Asn	Ala	Asn	Leu	Ile	Val	Val
			20					25					30		
Met	Gly	Gly	Asn	Ala	Ala	Glu	Ala	His	Pro	Val	Gly	Phe	Arg	Trp	Ala
			35				40					45			
Met	Glu	Ala	Lys	Ile	His	Asn	Gly	Ala	Lys	Leu	Ile	Val	Ile	Asp	Pro
	50					55					60				
Arg	Phe	Thr	Arg	Thr	Ala	Ser	Val	Ala	Asp	Phe	Tyr	Thr	Pro	Ile	Arg
65					70					75				80	
Ser	Gly	Thr	Asp	Ile	Thr	Phe	Leu	Ser	Gly	Val	Leu	Leu	Tyr	Leu	Met
				85					90					95	
Thr	Asn	Glu	Lys	Tyr	Asn	Arg	Glu	Tyr	Thr	Glu	Ala	Tyr	Thr	Asn	Ala
			100					105					110		
Ser	Leu	Ile	Val	Arg	Glu	Asp	Tyr	His	Phe	Glu	Asp	Gly	Leu	Phe	Ser
			115				120					125			
Gly	Tyr	Asp	Ala	Glu	Lys	Arg	Lys	Tyr	Asp	Lys	Thr	Ser	Trp	Asn	Tyr
	130					135					140				
Glu	Leu	Asp	Glu	Asn	Gly	Phe	Ala	Lys	Arg	Asp	Thr	Thr	Leu	Gln	His
145					150					155				160	
Pro	Arg	Cys	Val	Trp	Asn	Leu	Leu	Lys	Glu	His	Val	Ser	Arg	Tyr	Thr
				165					170					175	
Pro	Glu	Val	Val	Glu	Asn	Ile	Cys	Gly	Thr	Pro	Lys	Ala	Asp	Phe	Leu

Lys	Val	Cys	Glu	Leu	Ile	Ala	Glu	Thr	Ser	Ala	Lys	Asp	Lys	Thr	Ala
		195					200					205			
Ser	Phe	Leu	Tyr	Ala	Leu	Gly	Trp	Thr	Gln	His	Ser	Ile	Gly	Ala	Gln
	210					215					220				
Asn	Ile	Arg	Thr	Met	Ala	Met	Val	Gln	Leu	Leu	Leu	Gly	Asn	Met	Gly
225					230					235					240
Met	Ala	Gly	Gly	Gly	Val	Asn	Ala	Leu	Arg	Gly	His	Ser	Asn	Ile	Gln
				245					250					255	
Gly	Leu	Thr	Asp	Leu	Gly	Leu	Leu	Ser	Gln	Ser	Leu	Thr	Gly	Tyr	Met
			260					265						270	
Asn	Leu	Pro	Ser	Glu	Lys	Gln	Thr	Asp	Leu	Gln	Thr	Tyr	Leu	Thr	Ala
		275					280					285			
Ser	Thr	Pro	Lys	Pro	Leu	Leu	Glu	Gly	Gln	Val	Asn	Tyr	Trp	Gly	Asn
	290					295					300				
Tyr	Pro	Lys	Phe	Phe	Val	Ser	Leu	Met	Lys	Ala	Phe	Tyr	Gly	Asp	Lys
305					310					315					320
Ala	Thr	Ala	Glu	Asn	Ser	Trp	Gly	Phe	Asp	Trp	Leu	Pro	Lys	Trp	Asp
				325					330					335	
Lys	Gly	Tyr	Asp	Val	Leu	Gln	Tyr	Phe	Glu	Met	Met	His	Gln	Gly	Gln
			340					345						350	
Val	Asn	Gly	Tyr	Ile	Cys	Gln	Gly	Phe	Asn	Pro	Val	Ala	Ser	Phe	Pro
		355					360					365			
Asn	Lys	Asn	Lys	Val	Val	Glu	Ser	Leu	Ser	Lys	Leu	Lys	Phe	Leu	Val
	370					375					380				
Thr	Ile	Asp	Pro	Leu	Asn	Thr	Glu	Thr	Ser	Thr	Phe	Trp	Gln	Asn	His
385					390					395					400
Gly	Glu	Ser	Asn	Asp	Val	Asp	Pro	Ser	Lys	Ile	Gln	Thr	Glu	Val	Phe
			405						410					415	
Arg	Leu	Pro	Ser	Thr	Cys	Phe	Ala	Glu	Glu	Asn	Gly	Ser	Ile	Val	Asn
			420					425					430		
Ser	Gly	Arg	Trp	Leu	Gln	Trp	His	Trp	Lys	Gly	Ala	Asp	Ala	Pro	Gly
		435					440					445			
Ile	Ala	Leu	Asn	Asp	Gly	Glu	Ile	Leu	Ala	Gly	Ile	Phe	Leu	Arg	Leu
	450					455					460				
Arg	Lys	Met	Tyr	Ala	Ser	Glu	Gly	Gly	Ala	Thr	Pro	Glu	Pro	Val	Leu
465					470					475					480
Asn	Met	Thr	Trp	Asn	Tyr	Ser	Thr	Pro	Glu	Asn	Pro	Ala	Pro	Glu	Glu
			485						490					495	
Val	Ala	Met	Glu	Ser	Asn	Gly	Lys	Ala	Leu	Ala	Asp	Val	Ile	Asp	Pro
			500					505					510		
Ala	Thr	Gly	Ala	Val	Leu	Ala	Lys	Lys	Gly	Asp	Gln	Leu	Ser	Thr	Phe
		515					520					525			
Ala	His	Leu	Arg	Asp	Asp	Gly	Thr	Thr	Ser	Ser	Gly	Cys	Trp	Ile	Phe
	530														

Ser Asn Pro Ala Ala Arg Ile Phe Lys Gly Asp Phe Glu Ala Leu Gly
 675 680 685
 Lys Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu
 690 695 700
 His Phe His Tyr Trp Thr Lys His Ala Leu Leu Asn Ala Ile Ala Gln
 705 710 715 720
 Pro Glu Gln Phe Val Glu Ile Gly Glu Lys Leu Ala Asn Lys Leu Gly
 725 730 735
 Ile Ala His Gly Asp Thr Val Lys Val Ser Ser Asn Arg Gly Tyr Ile
 740 745 750
 Lys Ala Lys Ala Val Val Thr Lys Arg Ile Arg Thr Leu Asn Val His
 755 760 765
 Gly Gln Gln Val Asp Thr Ile Gly Ile Pro Ile His Trp Gly Tyr Glu
 770 775 780
 Gly Val Ala Lys Lys Gly Phe Ile Ala Asn Thr Leu Thr Pro Phe Val
 785 790 795 800
 Gly Asp Ala Asn Thr Gln Thr Pro Glu Phe Lys Ala Phe Leu Val Asn
 805 810 815
 Val Glu Lys Val
 820

<210> 9987

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 9987

Arg Arg Arg Leu Met Ala Tyr Gln Ser Gln Asp Ile Ile Arg Arg Ser
 1 5 10 15
 Ala Thr Asn Gly Phe Thr Pro Ala Pro Gln Ala Arg Asp His Gln Gln
 20 25 30
 Glu Val Ala Lys Leu Ile Asp Val Thr Thr Cys Ile Gly Cys Lys Ala
 35 40 45
 Cys Gln Val Ala Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly
 50 55 60
 His Asn Val Gly Val Tyr Asp Asn Pro Ala Asp Leu Thr Ala Lys Ser
 65 70 75 80
 Trp Thr Val Met Arg Phe Ser Glu Val Glu Gln Asn Asp Lys Leu Glu
 85 90 95
 Trp Leu Ile Arg Lys Asp Gly Cys Met His Cys Ala Asp Pro Gly Cys
 100 105 110
 Leu Lys Ala Cys Pro Ser Glu Gly Ala Ile Ile Gln Tyr Ala Asn Gly
 115 120 125
 Ile Val Asp Phe Gln Ser Glu Gln Cys Ile Gly Cys Gly Tyr Cys Ile
 130 135 140
 Ala Gly Cys Pro Phe Asp Val Pro Arg Met Asn Pro Glu Asp Asn Arg
 145 150 155 160
 Val Tyr Lys Cys Thr Leu Cys Val Asp Arg Val Asn Val Gly Gln Glu
 165 170 175
 Pro Ala Cys Val Lys Thr Cys Pro Thr Gly Ala Ile His Phe Gly Ser
 180 185 190
 Lys Glu Asp Met Lys Thr Leu Ala Ala Glu Arg Val Gly Glu Leu Lys
 195 200 205
 Thr Arg Gly Tyr Asp Asn Ala Gly Leu Tyr Asp Pro Ala Gly Val Gly
 210 215 220
 Gly Thr His Val Met Tyr Val Leu His His Ala Asp Lys Pro Asn Leu
 225 230 235 240
 Tyr His Gly Leu Pro Glu Asn Pro Glu Ile Ser Ala Thr Val Lys Phe
 245 250 255
 Trp Lys Gly Ile Trp Lys Pro Leu Ala Ala Val Gly Phe Ala Ala Thr
 260 265 270

Phe Ala Ala Ser Ile Phe His Tyr Val Gly Val Gly Pro Asn Arg Ala
 275 280 285
 Glu Glu Glu Asp Asp Asn Leu His Glu Glu Lys Asp Glu Val Arg Lys
 290 295 300

305

<210> 9988

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9988

Gly Met Thr Met Tyr Thr Leu Lys Asp Ile Thr Arg Pro Ser Gly Gly
 1 5 10 15
 Phe Ala Met Leu Ala Val Asp Gln Arg Glu Ala Met Arg Leu Met Phe
 20 25 30
 Ala Ala Ala Gly Ala Pro Val Pro Val Thr Asp Gln His Leu Thr Asp
 35 40 45
 Phe Lys Val Asn Ala Ala Lys Ile Leu Ser Pro Tyr Ala Ser Ala Ile
 50 55 60
 Leu Val Asp Gln Gln Phe Cys Tyr Arg Gln Ile Val Gly Gln Gln Ala
 65 70 75 80
 Val Ala Lys Ser Cys Ala Met Ile Val Ala Ala Asp Glu Phe Ile Pro
 85 90 95
 Gly Asn Gly Ile Pro Val Asp Ser Val Ala Ile Asp Lys Asn Val Asp
 100 105 110
 Ala Gln Ala Val Lys Arg Asp Gly Gly Lys Ala Leu Lys Leu Leu Val
 115 120 125
 Leu Trp Arg Ser Asp Glu Asp Pro Gln Gln Arg Leu Glu Met Val Lys
 130 135 140
 Ala Phe Asn Thr Leu Cys His Asp Asn Gly Leu Leu Ser Ile Ile Glu
 145 150 155 160
 Pro Val Val Arg Pro Pro Arg Arg Gly Ala Ala Phe Asn Arg Glu Gln
 165 170 175
 Ala Ile Ile Asp Ala Ala Lys Glu Leu Gly Asp Ser Gly Ala Asp Leu
 180 185 190
 Tyr Lys Val Glu Met Pro Leu Phe Gly Lys Gly Thr Gln Glu Leu
 195 200 205
 Leu Ala Ala Ser Gln Lys Leu Asn Glu Asn Ile Ala Met Pro Trp Val
 210 215 220
 Ile Leu Ser Ser Gly Val Asp Asp Lys Leu Phe Pro Arg Ala Val Ser
 225 230 235 240
 Val Ala Met Gln Ala Gly Ala Ser Gly Phe Leu Ala Gly Arg Ala Val
 245 250 255
 Trp Ser Ser Val Ile Gly Leu Pro Asp Thr Glu Leu Met Leu Arg Asp
 260 265 270
 Ile Ser Val Pro Lys Leu Gln Arg Leu Gly Glu Ile Val Asp Glu Met
 275 280 285
 Met Ala Arg Arg
 290

<210> 9989

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 9989

Asp Gly Val Phe Met Arg Thr Leu His Asn Ile Asp Leu Lys Asn Asn
 1 5 10 15
 Glu Ser Gly Phe Thr Leu Arg Trp Gln Asp Arg Leu Ile Leu Ser His

			20					25					30		
Thr	Ala	Asp	Ala	Pro	Cys	Leu	Trp	Ile	Gly	Ala	Gly	Glu	Ala	Asp	Ile
		35					40					45			
Glu	Met	Phe	Arg	Gly	Asn	Phe	Ser	Ile	Lys	Asp	Lys	Leu	Asn	Glu	Lys
	50					55					60				
Ile	Ala	Leu	Thr	Asn	Ala	Thr	Val	Thr	Gln	Gln	Ser	Ala	Gly	Trp	Ala
65				70					75						80
Ile	Arg	Phe	Thr	Arg	Gly	Asp	Ala	Val	Ser	Ala	Thr	Leu	Leu	Val	Gly
				85				90						95	
Val	Asp	Ala	Glu	Gly	Arg	Leu	Glu	Leu	Lys	Leu	Lys	Asn	Asp	Ala	Pro
			100				105						110		
Gly	His	Asn	Arg	Ile	Trp	Leu	Arg	Leu	Ala	Ala	Gln	Pro	Glu	Asp	His
		115				120						125			
Ile	Tyr	Gly	Cys	Gly	Glu	Gln	Phe	Ser	Tyr	Phe	Asp	Leu	Arg	Gly	Lys
	130				135						140				
Pro	Phe	Pro	Leu	Trp	Thr	Ser	Glu	Gln	Gly	Val	Gly	Arg	Asn	Lys	Gln
145				150						155					160
Thr	Tyr	Val	Thr	Trp	Gln	Ala	Asp	Cys	Lys	Glu	Asn	Ala	Gly	Gly	Asp
				165					170					175	
Tyr	Tyr	Trp	Thr	Phe	Phe	Pro	Gln	Pro	Thr	Phe	Val	Ser	Thr	Gln	Lys
			180				185						190		
Tyr	Tyr	Cys	His	Val	Asp	Asn	Ser	Cys	Tyr	Met	Asn	Phe	Asp	Phe	Ser
		195				200					205				
Ala	Pro	Asp	Phe	His	Glu	Leu	Ala	Phe	Trp	Glu	Asp	Asn	Ala	Thr	Leu
	210				215						220				
Arg	Phe	Glu	Cys	Ala	Glu	Thr	Tyr	Val	Asp	Leu	Glu	Gly	Lys	Leu	Thr
225				230						235					240
Gly	Leu	Leu	Gly	Arg	Gln	Pro	Glu	Leu	Pro	Asp	Trp	Val	Tyr	Asp	Gly
			245						250					255	
Val	Thr	Leu	Gly	Ile	Gln	Gly	Gly	Thr	Glu	Val	Cys	Gln	Gln	Lys	Leu
			260				265						270		
Asp	Thr	Met	Arg	Asn	Gly	Gly	Val	Lys	Val	Asn	Gly	Ile	Trp	Ala	Gln
		275					280					285			
Asp	Trp	Ser	Gly	Ile	Arg	Met	Thr	Ser	Phe	Gly	Lys	Arg	Val	Met	Trp
	290				295						300				
Asn	Trp	Lys	Trp	Asn	Ser	Ala	Leu	Tyr	Pro	Gln	Leu	Asp	Thr	Arg	Ile
305				310						315					320
Ala	Gln	Trp	Lys	Glu	Glu	Gly	Val	Gln	Phe	Leu	Ser	Tyr	Ile	Asn	Pro
			325						330					335	
Tyr	Val	Ala	Ser	Asp	Lys	Asp	Leu	Cys	Glu	Glu	Ala	Ala	Lys	Arg	Gly
			340				345						350		
Tyr	Leu	Thr	Lys	Asn	Ala	Asp	Gly	Lys	Asp	Tyr	His	Val	Glu	Phe	Gly
		355				360						365			
Glu	Phe	Tyr	Ala	Gly	Val	Ile	Asp	Leu	Thr	Asn	Pro	Ala	Ala	Tyr	Asp
	370		</												

5501

jc530 U.S. PTO
09/252691
02/18/99

Glu Met Lys Arg Ser Lys Glu Leu Leu Leu Arg Trp Cys Asp Phe Ser
 515 520 525
 Ala Phe Thr Pro Met Met Arg Thr His Glu Gly Asn Arg Pro Gly Asp
 530 535 540
 Asn Trp Gln Phe Asp Gly Asp Ala Glu Thr Ile Ala His Phe Ala Arg
 545 550 555 560
 Met Thr Thr Val Phe Thr Thr Leu Lys Pro Tyr Thr Lys Ala Ala Val
 565 570 575
 Ala Gln Asn Ala Lys Ser Gly Leu Pro Val Met Arg Pro Leu Phe Leu
 580 585 590
 His Tyr Glu Asp Asp Ala Arg Ala Tyr Thr Leu Lys Tyr Gln Tyr Leu
 595 600 605
 Phe Gly Arg Asp Leu Leu Val Ala Pro Val His Glu Lys Gly Arg Arg
 610 615 620
 Asp Trp Ser Leu Tyr Leu Pro Gln Asp Thr Trp Val Asn Ala Trp Thr
 625 630 635 640
 Gly Glu Thr Cys Gln Gly Gly Asp Ile Thr Val Asp Ala Pro Leu Gly
 645 650 655
 Lys Pro Pro Val Phe Tyr Arg Gln Gln Ser Glu Trp Ala Asp Leu Phe
 660 665 670
 Ser Thr Leu Arg His Ile
 675

<210> 9990

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 9990

Gly Ser Pro Ala Gly Lys Pro Ala Gly Arg Arg Arg Thr Ile Met Ser
 1 5 10 15
 Gln His Thr Ser Asp Pro Ala Thr Leu Arg Leu Pro Phe Lys Glu Lys
 20 25 30
 Leu Ala Tyr Gly Met Gly Asp Leu Gly Ser Asn Ile Leu Leu Asp Ile
 35 40 45
 Gly Thr Leu Tyr Leu Leu Lys Phe Tyr Thr Asp Val Leu Gly Leu Pro
 50 55 60
 Gly Thr Tyr Gly Gly Ile Phe Leu Ile Ala Lys Phe Phe Thr Ala
 65 70 75 80
 Phe Thr Asp Met Gly Thr Gly Ile Met Leu Asp Ser Arg Arg Lys Ile
 85 90 95
 Gly Pro Lys Gly Lys Phe Arg Pro Phe Val Leu Tyr Ala Ala Phe Pro
 100 105 110
 Val Thr Leu Leu Ala Ile Ala Asn Phe Val Gly Thr Pro Phe Glu Ile
 115 120 125
 Thr Gly Lys Thr Val Met Ala Thr Val Leu Phe Met Leu Tyr Gly Leu
 130 135 140
 Phe Phe Ser Met Met Asn Cys Ser Tyr Gly Ala Met Val Pro Ala Ile
 145 150 155 160
 Thr Lys Asn Pro Asp Glu Arg Ala Ser Leu Ala Ala Trp Arg Gln Gly
 165 170 175
 Gly Ala Thr Leu Gly Leu Leu Leu Cys Thr Val Gly Phe Val Pro Val
 180 185 190
 Met Asn Leu Ile Glu Gly Asn Asp Gln Leu Gly Tyr Ile Phe Ala Ala
 195 200 205
 Thr Leu Phe Ser Leu Phe Gly Leu Phe Phe Met Trp Trp Cys Tyr Lys
 210 215 220
 Gly Val Thr Glu Arg Tyr Val Glu Thr Gln Pro Ala Asn Pro Ala Gln
 225 230 235 240
 Lys Pro Gly Leu Leu Gln Ser Phe Arg Ala Ile Ala Gly Asn Arg Pro
 245 250 255

Leu Phe Ile Leu Cys Ile Ala Asn Leu Cys Thr Leu Gly Ala Phe Asn
 260 265 270
 Val Lys Leu Ala Ile Gln Val Tyr Tyr Thr Gln Tyr Val Leu Asn Asp
 275 280 285
 Pro Ile Leu Leu Ser Tyr Met Gly Phe Phe Ser Met Gly Cys Ile Phe
 290 295 300
 Ile Gly Val Phe Met Met Pro Gly Ala Val Arg Arg Phe Gly Lys Lys
 305 310 315 320
 Lys Val Tyr Ile Ser Gly Leu Met Ile Trp Val Ala Gly Asp Leu Leu
 325 330 335
 Asn Tyr Phe Phe Gly Gly Gly Ser Val Ser Phe Val Ala Phe Ser Cys
 340 345 350
 Leu Ala Phe Phe Gly Ser Ala Phe Val Asn Ser Leu Asn Trp Ala Leu
 355 360 365
 Val Ser Asp Thr Val Glu Tyr Gly Glu Trp Arg Thr Gly Val Arg Ser
 370 375 380
 Glu Gly Thr Val Tyr Thr Gly Phe Thr Phe Phe Arg Lys Val Ser Gln
 385 390 395 400
 Ala Leu Ala Gly Phe Phe Pro Gly Ile Met Leu Thr Gln Ile Gly Tyr
 405 410 415
 Val Pro Asn Val Val Gln Ser Ala Gly Thr Val Glu Gly Leu Arg Gln
 420 425 430
 Leu Ile Phe Ile Tyr Pro Ser Leu Ala Val Ile Thr Ile Val Ala
 435 440 445
 Met Gly Cys Phe Tyr Asn Leu Asn Glu Lys Met Tyr Val Arg Ile Val
 450 455 460
 Glu Glu Ile Glu Leu Arg Lys Arg Thr Ala
 465 470 475

<210> 9991

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9991

Ser Val Ser Ser His Phe Ile Thr Ile Asn Pro Ala Thr Met Ser Phe
 1 5 10 15
 Leu Phe Ile Arg Arg Glu Ala Phe Leu Tyr Leu Ile His Gly Gln Ile
 20 25 30
 Met Lys Arg Ile Ile Thr Val Leu Ile Val Ser Ser Val Ser Cys Pro
 35 40 45
 Val Phe Ala Gly Ala Tyr Val Glu Thr Arg Glu Ala Tyr Asn Thr Ala
 50 55 60
 Ser Glu Leu His Glu Val Ile Leu Arg Ala Gly Tyr Asn Phe Asp Met
 65 70 75 80
 Gly Ala Gly Leu Met Phe Thr Asn Ala Tyr Asn Val Gly Lys Trp Asp
 85 90 95
 Glu Leu Lys His Ser Tyr Asn Glu Ile Glu Gly Trp Tyr Pro Leu Phe
 100 105 110
 Lys Pro Thr Asp Lys Leu Thr Phe Gln Pro Gly Gly Leu Ile Asn Asp
 115 120 125
 Ser Ser Ala Gly Ser Gly Gly Ala Val Tyr Leu Asp Thr Asn Tyr Lys
 130 135 140
 Phe Thr Asp Trp Phe Asn Leu Thr Phe Arg Tyr Arg Tyr Asn His Asn
 145 150 155 160
 Asn Tyr Asp Thr Pro Asp Tyr Asn Gly Gln Met Asp Lys Asn Asp Thr
 165 170 175
 His Glu Phe Ala Asn Tyr Trp Asn Phe Lys Val Thr Asp Ala Phe Phe
 180 185 190
 Tyr Thr Phe Glu Pro His Phe Phe Gln Arg Val Asn Asp Tyr His Ser
 195 200 205

5503

Lys Asn Gly Lys Asp His His Trp Glu Ile Thr Asn Lys Phe Ser Tyr
 210 215 220
 Lys Ile Asp Arg Asn Trp Leu Pro Tyr Leu Glu Leu Gln Trp Leu Asp
 225 230 235 240
 Arg Trp Asn Asp Tyr Asn Arg Glu Gln Tyr Arg Ile Arg Leu Gly Leu
 245 250 255
 Arg Tyr Ser Phe
 260

<210> 9992
 <211> 485
 <212> PRT
 <213> Enterobacter cloacae

<400> 9992
 Arg Pro Arg Tyr His Asp Asp Asn Asp Gln Ser Gly Glu Leu Ser Met
 1 5 10 15
 Ser Ala Glu His Val Leu Thr Met Leu Asn Glu His Glu Val Lys Phe
 20 25 30
 Val Asp Leu Arg Phe Thr Asp Thr Lys Gly Lys Glu Gln His Val Thr
 35 40 45
 Ile Pro Ala His Gln Val Asn Ala Glu Phe Phe Glu Glu Gly Lys Met
 50 55 60
 Phe Asp Gly Ser Ser Ile Gly Gly Trp Lys Gly Ile Asn Glu Ser Asp
 65 70 75 80
 Met Val Leu Met Pro Asp Ala Thr Thr Ala Leu Ile Asp Pro Phe Tyr
 85 90 95
 Glu Glu Pro Thr Leu Ile Ile Arg Cys Asp Ile Leu Glu Pro Gly Thr
 100 105 110
 Leu Gln Gly Tyr Asp Arg Asp Pro Arg Ser Ile Ala Lys Arg Ala Glu
 115 120 125
 Glu Tyr Leu Arg Ser Thr Gly Ile Ala Asp Thr Val Leu Phe Gly Pro
 130 135 140
 Glu Pro Glu Phe Phe Leu Phe Asp Asp Ile Arg Phe Gly Ala Ser Ile
 145 150 155 160
 Ser Gly Ser His Val Ala Ile Asp Asp Ile Glu Gly Ala Trp Asn Ser
 165 170 175
 Ser Thr Lys Tyr Glu Gly Gly Asn Lys Gly His Arg Pro Gly Val Lys
 180 185 190
 Gly Gly Tyr Phe Pro Val Pro Pro Val Asp Ser Ser Gln Asp Ile Arg
 195 200 205
 Ser Thr Met Cys Leu Ile Met Glu Glu Met Gly Leu Val Val Glu Ala
 210 215 220
 His His His Glu Val Ala Thr Ala Gly Gln Asn Glu Ile Ala Thr Arg
 225 230 235 240
 Phe Asn Thr Met Thr Lys Lys Ala Asp Glu Ile Gln Ile Tyr Lys Tyr
 245 250 255
 Val Val His Asn Val Ala His Arg Phe Gly Lys Thr Ala Thr Phe Met
 260 265 270
 Pro Lys Pro Met Phe Gly Asp Asn Gly Ser Gly Met His Cys His Met
 275 280 285
 Ser Leu Ser Lys Asn Gly Thr Asn Leu Phe Ser Gly Asp Lys Tyr Ala
 290 295 300
 Gly Leu Ser Glu Gln Ala Leu His Tyr Ile Gly Gly Val Ile Lys His
 305 310 315 320
 Ala Lys Ala Ile Asn Ala Leu Ala Asn Pro Thr Thr Asn Ser Tyr Lys
 325 330 335
 Arg Leu Val Pro Gly Tyr Glu Ala Pro Val Met Leu Ala Tyr Ser Ala
 340 345 350
 Arg Asn Arg Ser Ala Ser Ile Arg Ile Pro Val Val Ala Ser Pro Lys
 355 360 365

Ala Arg Arg Ile Glu Val Arg Phe Pro Asp Pro Ala Ala Asn Pro Tyr
 370 375 380
 Leu Cys Phe Ala Ala Leu Met Ala Gly Leu Asp Gly Ile Lys Asn
 385 390 395 400
 Lys Ile His Pro Gly Glu Ala Met Asp Lys Asn Leu Tyr Asp Leu Pro
 405 410 415
 Pro Glu Glu Ala Lys Glu Ile Pro Gln Val Ala Gly Ser Leu Glu Glu
 420 425 430
 Ala Leu Gln Ala Leu Asp Ala Asp Arg Glu Phe Leu Thr Ala Gly Gly
 435 440 445
 Val Phe Thr Asp Glu Ala Ile Asp Ala Tyr Ile Ala Leu Arg Thr Glu
 450 455 460
 Glu Asn Asp Arg Val Arg Met Thr Pro His Pro Val Glu Phe Glu Leu
 465 470 475 480
 Tyr Tyr Ser Val
 485

<210> 9993

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9993

Ile Thr Met Thr Asp Ile Ser Arg Thr Gln Ala Trp Leu Glu Ser Leu
 1 5 10 15
 Arg Pro Lys Thr Leu Pro Leu Ala Phe Ala Ala Ile Ile Val Gly Thr
 20 25 30
 Thr Leu Ala Trp Trp Gln Gly His Phe Asp Pro Leu Val Ala Gly Leu
 35 40 45
 Ala Leu Val Thr Ala Gly Leu Gln Ile Leu Ser Asn Leu Ala Asn
 50 55 60
 Asp Tyr Gly Asp Ala Val Lys Gly Ser Asp Lys Pro Asp Arg Ile Gly
 65 70 75 80
 Pro Leu Arg Gly Met Gln Lys Gly Val Ile Thr Gln Ala Gln Met Lys
 85 90 95
 Arg Ala Leu Ile Ile Thr Val Val Leu Ile Cys Leu Ser Gly Leu Ala
 100 105 110
 Leu Val Thr Val Ala Ser Lys Thr Thr Ser Asp Phe Ile Gly Phe Leu
 115 120 125
 Val Leu Gly Leu Leu Ala Ile Ile Ala Ala Ile Thr Tyr Thr Val Gly
 130 135 140
 Thr Arg Pro Tyr Gly Tyr Ile Gly Leu Gly Asp Ile Ser Val Leu Val
 145 150 155 160
 Phe Phe Gly Trp Leu Ser Val Met Gly Ser Trp Tyr Leu Gln Ala His
 165 170 175
 Thr Val Ile Pro Ala Leu Phe Leu Pro Ala Thr Ala Cys Gly Leu Leu
 180 185 190
 Ala Thr Ala Val Leu Asn Ile Asn Asn Leu Arg Asp Ile Asp Ser Asp
 195 200 205
 Arg Glu Asn Gly Lys Asn Thr Leu Ala Val Arg Leu Gly Pro Val Asn
 210 215 220
 Ala Arg Arg Tyr His Ala Phe Leu Leu Ile Gly Ala Leu Val Cys Leu
 225 230 235 240
 Ala Leu Phe Asn Leu Ile Ser Leu His Gly Leu Trp Gly Trp Leu Phe
 245 250 255
 Val Leu Ala Ala Pro Leu Leu Ile Lys Gln Ala Arg Tyr Val Met Arg
 260 265 270
 Glu Leu Ser Pro Ala Ala Met Pro Pro Met Leu Glu Arg Thr Val Lys
 275 280 285
 Gly Ala Leu Leu Thr Asn Leu Leu Phe Val Ile Gly Ile Val Leu Ser
 290 295 300

Gln Thr Leu Ser
305

<210> 9994

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 9994

Thr	Leu	Leu	Phe	Cys	Arg	Ile	Pro	Ile	Met	Ser	Gln	Thr	Ser	Thr	Leu
1				5					10					15	
Lys	Gly	Gln	Cys	Ile	Ala	Glu	Phe	Leu	Gly	Thr	Gly	Leu	Leu	Ile	Phe
			20					25					30		
Phe	Gly	Val	Gly	Cys	Val	Ala	Ala	Leu	Lys	Val	Ala	Gly	Ala	Ser	Phe
		35					40					45			
Gly	Gln	Trp	Glu	Ile	Ser	Ile	Ile	Trp	Gly	Leu	Gly	Val	Ala	Met	Ala
	50					55					60				
Ile	Tyr	Leu	Thr	Ala	Gly	Val	Ser	Gly	Ala	His	Leu	Asn	Pro	Ala	Val
65					70					75					80
Thr	Ile	Ala	Leu	Trp	Leu	Phe	Ala	Cys	Phe	Asp	Gly	Arg	Lys	Val	Val
				85					90					95	
Pro	Phe	Ile	Ile	Ser	Gln	Phe	Ala	Gly	Ala	Phe	Cys	Ala	Ala	Ala	Leu
			100					105					110		
Val	Tyr	Gly	Leu	Tyr	Tyr	Asn	Leu	Phe	Ile	Asp	Phe	Glu	Gln	Thr	His
	115						120					125			
His	Met	Val	Arg	Gly	Ser	Val	Glu	Ser	Leu	Asp	Leu	Ala	Gly	Ile	Phe
	130					135					140				
Ser	Thr	Tyr	Pro	Asn	Pro	His	Ile	Asn	Phe	Val	Gln	Ala	Phe	Ala	Val
145					150					155					160
Glu	Met	Val	Ile	Thr	Ala	Ile	Leu	Met	Gly	Val	Ile	Met	Ala	Leu	Gly
			165						170					175	
Asp	Asp	Gly	Asn	Gly	Ile	Pro	Arg	Gly	Pro	Leu	Ala	Pro	Leu	Leu	Ile
			180					185					190		
Gly	Leu	Leu	Ile	Ala	Val	Ile	Gly	Ala	Ser	Met	Gly	Pro	Leu	Thr	Gly
		195					200					205			
Phe	Ala	Met	Asn	Pro	Ala	Arg	Asp	Leu	Gly	Pro	Lys	Thr	Phe	Ala	Phe
	210					215					220				
Phe	Ala	Gly	Trp	Gly	Asp	Val	Ala	Phe	Thr	Gly	Gly	Lys	Asp	Ile	Pro
225					230					235					240
Tyr	Phe	Leu	Val	Pro	Leu	Phe	Gly	Pro	Ile	Val	Gly	Ala	Ala	Leu	Gly
			245						250					255	
Ala	Phe	Gly	Tyr	Arg	Lys	Leu	Ile	Gly	Arg	His	Leu	Pro	Cys	Asp	Thr
			260					265					270		
Cys	Val	Glu	Glu	Glu	Lys	Glu	Thr	Thr	Ser	Thr	Thr	Gln	Gln	Lys	Ala
		275					280					285			
Ser	Leu														
	290														

<210> 9995

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 9995

Ser	Asp	Tyr	Gly	Thr	His	Thr	Met	Thr	Glu	Lys	Lys	Tyr	Ile	Val	Ala
1				5					10					15	
Leu	Asp	Gln	Gly	Thr	Thr	Ser	Ser	Arg	Ala	Val	Val	Met	Asp	His	Asp
		20						25					30		
Ala	Asn	Ile	Val	Ser	Val	Ser	Gln	Arg	Glu	Phe	Glu	Gln	Ile	Tyr	Pro
		35					40					45			
Arg	Pro	Gly	Trp	Val	Glu	His	Asp	Pro	Met	Glu	Ile	Trp	Ala	Ser	Gln

50					55					60					
Ser	Ser	Thr	Leu	Val	Glu	Val	Leu	Ala	Lys	Ala	Asp	Ile	Ser	Ser	Asp
65					70					75					80
Gln	Ile	Ala	Ala	Ile	Gly	Ile	Thr	Asn	Gln	Arg	Glu	Thr	Thr	Val	Val
				85					90					95	
Trp	Glu	Arg	Glu	Thr	Gly	Lys	Pro	Ile	Tyr	Asn	Ala	Ile	Val	Trp	Gln
			100					105					110		
Cys	Arg	Arg	Thr	Ser	Glu	Ile	Cys	Glu	Gln	Leu	Lys	Arg	Asp	Gly	Met
			115				120						125		
Glu	Glu	Tyr	Val	Arg	Ser	Ala	Thr	Gly	Leu	Val	Val	Asp	Pro	Tyr	Phe
			130				135						140		
Ser	Gly	Thr	Lys	Val	Lys	Trp	Ile	Leu	Asp	His	Val	Glu	Gly	Ser	Arg
145					150					155					160
Glu	Arg	Ala	Arg	Arg	Gly	Glu	Leu	Leu	Phe	Gly	Thr	Val	Asp	Thr	Trp
				165					170						175
Leu	Ile	Trp	Lys	Met	Thr	Gln	Gly	Arg	Val	His	Val	Thr	Asp	Tyr	Thr
			180					185					190		
Asn	Ala	Ser	Arg	Thr	Met	Leu	Phe	Asn	Ile	Asn	Thr	Leu	Glu	Trp	Asp
			195				200						205		
Asp	Lys	Met	Leu	Asp	Ala	Leu	Asp	Ile	Pro	Arg	Ala	Met	Leu	Pro	Asp
			210				215						220		
Val	Arg	Lys	Ser	Ser	Glu	Val	Tyr	Gly	Gln	Thr	Asn	Ile	Gly	Gly	Lys
225					230					235					240
Gly	Gly	Thr	Arg	Ile	Pro	Ile	Ala	Gly	Ile	Ala	Gly	Asp	Gln	Gln	Ala
				245					250						255
Ala	Leu	Phe	Gly	Gln	Leu	Cys	Val	Lys	Glu	Gly	Met	Ala	Lys	Asn	Thr
			260					265					270		
Tyr	Gly	Thr	Gly	Cys	Phe	Met	Leu	Met	Asn	Thr	Gly	Glu	Lys	Ala	Val
			275				280						285		
Lys	Ser	Glu	Asn	Gly	Leu	Leu	Thr	Thr	Ile	Ala	Cys	Gly	Pro	Arg	Gly
			290				295						300		
Glu	Val	Asn	Tyr	Ala	Leu	Glu	Gly	Ala	Val	Phe	Met	Ala	Gly	Ala	Ser
305					310					315					320
Ile	Gln	Trp	Leu	Arg	Asp	Glu	Met	Lys	Leu	Ile	Ser	Asp	Ala	Phe	Asp
				325					330					335	
Ser	Glu	Tyr	Phe	Ala	Thr	Lys	Val	Lys	Asp	Thr	Asn	Gly	Val	Tyr	Val
			340					345					350		
Val	Pro	Ala	Phe	Thr	Gly	Leu	Gly	Ala	Pro	Tyr	Trp	Asp	Pro	Tyr	Ala
			355				360						365		
Arg	Gly	Ala	Ile	Phe	Gly	Leu	Thr	Arg	Gly	Val	Asn	Ser	Asn	His	Ile
			370				375						380		
Ile	Arg	Ala	Thr	Leu	Glu	Ser	Ile	Ala	Tyr	Gln	Thr	Arg	Asp	Val	Leu
385					390					395					400
Glu	Ala	Met	Gln	Ala	Asp	Ser	Gly	Ile	Arg	Leu	His	Ala	Leu	Arg	Val
				405					410					415	
Asp	Gly	Gly	Ala	Val	Ala	Asn	Asn	Phe	Leu	Met	Gln	Phe	Gln	Ser	Asp
			420					425					430		
Ile	Leu	Gly	Thr	Arg	Val	Glu	Arg	Pro	Glu	Val	Arg	Glu	Val	Thr	Ala
			435				440						445		
Leu	Gly	Ala	Ala	Tyr	Leu	Ala	Gly	Leu	Ala	Val	Gly	Phe	Trp	Gln	Asn
			450				455						460		
Leu	Asp	Glu	Leu	Gln	Glu	Lys	Ala	Val	Ile	Glu	Arg	Glu	Phe	Arg	Pro
465					470					475					480
Gly	Ile	Glu	Thr	Thr	Glu	Arg	Asn	Tyr	Arg	Tyr	Ser	Gly	Trp	Lys	Lys
				485					490					495	
Ala	Val	Lys	Arg	Ala	Leu	Ala	Trp	Glu	Glu	His	Asp	Glu			
			500					505					510		

<210> 9996

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 9996

Leu Tyr Glu Tyr Leu Met Lys Arg Glu Leu Ala Ile Glu Phe Ser Arg
 1 5 10 15
 Val Thr Glu Ala Ala Ala Leu Ala Gly Tyr Lys Trp Leu Gly Arg Gly
 20 25 30
 Asp Lys Asn Thr Ala Asp Gly Ala Ala Val His Ala Met Arg Ile Val
 35 40 45
 Leu Asn Gln Val Asn Ile Asp Gly Thr Ile Val Ile Gly Glu Gly Glu
 50 55 60
 Ile Asp Glu Ala Pro Met Leu Tyr Ile Gly Glu Lys Val Gly Thr Gly
 65 70 75 80
 Lys Gly Asp Ala Val Asp Ile Ala Val Asp Pro Ile Glu Gly Thr Arg
 85 90 95
 Met Thr Ala Met Gly Gln Ala Asn Ala Leu Ala Val Leu Ala Val Gly
 100 105 110
 Asp Lys Gly Cys Phe Leu Asn Ala Pro Asp Met Tyr Met Glu Lys Leu
 115 120 125
 Ile Val Gly Pro Gly Ala Lys Gly Ala Ile Asp Leu Ser Leu Pro Leu
 130 135 140
 Asp Ala Asn Leu Arg Asn Ile Ala Ala Ala Leu Gly Lys Ala Leu Ser
 145 150 155 160
 Glu Leu Thr Val Thr Ile Leu Ala Lys Pro Arg His Asp Ala Thr Ile
 165 170 175
 Ala Tyr Leu Gln Thr Leu Gly Val Arg Val Phe Ala Ile Pro Asp Gly
 180 185 190
 Asp Val Ala Ala Ser Ile Leu Thr Cys Met Pro Asp Ser Glu Val Asp
 195 200 205
 Val Leu Tyr Gly Ile Gly Gly Ala Pro Glu Gly Val Val Ser Ala Ala
 210 215 220
 Val Ile Arg Ala Leu Asp Gly Asp Met Gln Ala Arg Leu Leu Pro Arg
 225 230 235 240
 His Glu Val Lys Gly Asp Ser Asp Glu Asn Leu Arg Ile Gly Ala Asp
 245 250 255
 Glu Leu Ala Arg Cys Ala Ala Met Gly Ile Glu Ala Asn Lys Val Leu
 260 265 270
 Ala Leu Asn Glu Met Ala Arg Ser Asp Asn Val Val Phe Ser Ala Thr
 275 280 285
 Gly Ile Thr Lys Gly Asp Leu Leu Asp Gly Ile Thr Arg Lys Gly Asn
 290 295 300
 Met Ala Thr Thr Glu Thr Leu Leu Ile Arg Gly Lys Ser Arg Thr Ile
 305 310 315 320
 Arg Arg Ile Lys Ser Ile His Tyr Leu Asp Arg Lys Asp Pro Asp Val
 325 330 335
 Gln Thr His Ile Leu
 340

<210> 9997

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9997

Lys Arg Glu Thr Ala Gln Glu Lys Ile Met Ala Asp Trp Val Thr Gly
 1 5 10 15
 Lys Val Thr Lys Val Gln Phe Trp Thr Asp Ala Leu Phe Ser Leu Thr
 20 25 30
 Leu His Ala Pro Val His Pro Phe Thr Ala Gly Gln Phe Ala Lys Leu
 35 40 45
 Gly Leu Asp Ile Asp Gly Glu Arg Val Gln Arg Ala Tyr Ser Tyr Val

50	55	60
Asn Ala Pro Asp Asn Pro Asp Leu Glu Phe Tyr Leu Val Thr Val Pro		
65	70	75
Asp Gly Lys Leu Ser Pro Arg Leu Ala Ala Leu Lys Pro Gly Asp Glu		
	85	90
Val Gln Ile Val Ser Asp Ala Ala Gly Phe Phe Val Leu Asp Glu Ile		
	100	105
Pro Asp Cys Asp Thr Leu Trp Met Leu Ala Thr Gly Thr Ala Ile Gly		
	115	120
Pro Tyr Leu Ser Ile Leu Gln Tyr Gly Lys Asp Leu Glu Arg Phe Lys		
	130	135
Asn Ile Val Leu Val His Ala Ala Arg Tyr Ala Ala Asp Leu Ser Tyr		
145	150	155
Leu Pro Gln Met Gln Ala Leu Glu Gln Arg Tyr Gly Gly Lys Leu Lys		
	165	170
Ile Gln Thr Val Val Ser Arg Glu Thr Ala Ala Gly Ser Leu Thr Gly		
	180	185
Arg Val Pro Ala Leu Ile Glu Ser Gly Ala Leu Glu Glu Ala Val Gly		
	195	200
Leu Pro Met Asn Thr Glu Thr Ser His Val Met Leu Cys Gly Asn Pro		
	210	215
Gln Met Val Arg Asp Thr Gln Gln Leu Leu Lys Asp Thr Arg Gln Met		
225	230	235
Thr Lys His Leu Arg Arg Arg Pro Gly His Met Thr Ala Glu His Tyr		
	245	250
		255
Trp		

<210> 9998

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9998

Gly Ala Leu Arg Met Thr Thr Gln Leu Glu Gln Ala Trp Asp Leu Ala	
1	5
Lys Gln Arg Phe Ala Ala Val Gly Val Asp Val Glu Glu Ala Leu Arg	
	20
Gln Leu Asp Arg Leu Pro Val Ser Met His Cys Trp Gln Gly Asp Asp	
	35
Val Ala Gly Phe Glu Asn Pro Gly Gly Ser Leu Thr Gly Gly Ile Gln	
	50
Ala Thr Gly Asn Tyr Pro Gly Lys Ala Arg Asn Ala Thr Glu Leu Arg	
65	70
Ala Asp Leu Glu Leu Ala Leu Ser Leu Ile Pro Gly Pro Lys Arg Leu	
	85
Asn Leu His Ala Ile Tyr Leu Glu Ser Asp Glu Pro Val Ala Arg Asn	
	100
Glu Ile Lys Pro Glu His Phe Thr Asn Trp Val Ala Trp Ala Lys Ala	
	115
Asn Arg Leu Gly Leu Asp Phe Asn Pro Ser Cys Phe Ser His Pro Leu	
	130
Ser Ala Asp Gly Phe Thr Leu Ala His Ala Asn Asp Glu Ile Arg Gln	
145	150
Phe Trp Ile Asp His Val Lys Ala Ser Arg Arg Val Ser Ala Tyr Phe	
	165
Gly Glu Gln Leu Gly Thr Pro Ser Val Met Asn Ile Trp Ile Pro Asp	
	180
Gly Met Lys Asp Ile Thr Val Asp Arg Leu Ala Pro Arg Gln Arg Leu	
	195
Leu Ala Ala Leu Asp Glu Ala Ile Ser Glu Lys Leu Asp Pro Ala His	
	200
	205

210	215	220
His Ile Asp Ala Val Glu Ser Lys Leu Phe Gly Ile Gly Ala Glu Ser		
225	230	235
Tyr Thr Val Gly Ser Asn Glu Phe Tyr Met Gly Tyr Ala Thr Ser Arg		
	245	250
Gln Thr Ala Leu Cys Leu Asp Ala Gly His Phe His Pro Thr Glu Val		
	260	265
Ile Ser Asp Lys Ile Ser Ala Ala Met Leu Tyr Val Pro Arg Leu Leu		
	275	280
Leu His Val Ser Arg Pro Val Arg Trp Asp Ser Asp His Val Val Leu		
	290	295
Leu Asp Asp Glu Thr Gln Ala Ile Ala Ser Glu Ile Ile Arg His Asn		
305	310	315
Leu Phe Asp Arg Val His Ile Gly Leu Asp Phe Phe Asp Ala Ser Ile		
	325	330
Asn Arg Ile Ala Ala Trp Val Ile Gly Thr Arg Asn Met Lys Lys Ala		
	340	345
Leu Leu Arg Ala Leu Leu Glu Pro Val Ala Ala Leu Lys Gln Leu Glu		
	355	360
Glu Asn Gly Asp Tyr Thr Ala Arg Leu Ala Leu Leu Glu Glu Gln Lys		
	370	375
Ser Leu Pro Trp Gln Ala Val Trp Glu Met Tyr Cys Gln Arg His Asp		
385	390	395
Ala Pro Ala Gly Ser Gln Trp Leu Asp Asn Val Arg Ala Tyr Glu Lys		
	405	410
Glu Val Leu Ala Ala Arg Gln		
	420	

<210> 9999

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9999

Lys Thr Ser Pro Gly Gly Ala Leu Leu Ala Gly Pro Thr Asp Lys Thr		
1	5	10
Arg Pro Gly Lys Arg Asn Ala Thr Arg His Phe Gln Arg Asn Tyr Ser		
	20	25
Met Gln Thr Ile Thr Thr Ser Trp Phe Val Gln Gly Met Ile Lys Ala		
	35	40
Thr Ser Asp Ala Trp Leu Lys Gly Trp Asp Glu Arg Asn Gly Gly Asn		
	50	55
Leu Thr Leu Arg Leu Asp Asp Ala Asp Ile Glu Pro Phe Ala Ser Asp		
65	70	75
Phe His Gln Lys Pro Arg Tyr Ile Ala Leu Ser Gln Pro Met Pro Leu		
	85	90
Leu Ala Asn Thr Pro Phe Ile Val Thr Gly Ser Gly Lys Phe Phe Arg		
	100	105
Asn Val Gln Leu Asp Pro Glu Ala Asn Leu Gly Val Val Lys Val Asp		
	115	120
Ser Asp Gly Ala Gly Tyr His Ile Leu Trp Gly Leu Thr Asp Asp Ala		
	130	135
Val Pro Thr Ser Glu Leu Pro Ala His Phe Leu Ser His Cys Glu Arg		
145	150	155
Ile Lys Ala Thr Asn Gly Lys Asp Arg Val Ile Met His Cys His Ala		
	165	170
Thr Asn Leu Ile Ala Leu Thr Tyr Val Leu Glu Asn Asn Ser Asp Phe		
	180	185
Phe Thr Arg Lys Leu Trp Glu Gly Ser Thr Glu Cys Leu Val Val Phe		
	195	200
Pro Asp Gly Val Gly Ile Leu Pro Trp Met Val Pro Gly Thr Asp Glu		
	205	

210		215		220
Ile Gly Gln Ala Thr	Ala Thr Asp Met Gln Lys His Ser Leu Val Leu			
225	230	235		240
Trp Pro Phe His Gly	Val Phe Gly Ser Gly Pro Thr Leu Asp Glu Thr			
	245	250		255
Phe Gly Leu Ile Asp Thr	Ala Glu Lys Ser Ala Glu Val Leu Val Lys			
	260	265		270
Val Tyr Ser Met Gly Gly	Met Lys Gln Thr Ile Thr Arg Glu Glu Leu			
	275	280		285
Ile Ala Leu Gly Lys Arg	Phe Gly Val Thr Pro Met Gln Ser Ala Leu			
	290	295		300
Asp Leu Tyr Gln				
305				

<210> 10000

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 10000

Ile Ala Gly Gly Ser Leu Arg Asp Trp Arg Asp Gln His His Gly	
1	5 10 15
Arg His Arg Pro Arg Ala Arg Leu Ser Val Arg Gly Ala Val Pro Trp	
	20 25 30
Arg His Gln Gln Arg Pro Ala Gly Asp Arg Arg Leu Pro Val Leu Ala	
	35 40 45
Asp Gly Asp Phe Arg Leu Gly His Cys His Arg Cys Ala Ala Glu Arg	
	50 55 60
Ala Arg Gln Gln Ala Gln Arg Gln Ala Asp Pro Ala Arg Arg Gly Ala	
65	70 75 80
Gly Thr Ser Glu Thr Gly Gly Glu Thr Met Ser Lys Met Met Thr Ser	
	85 90 95
Glu Glu Phe Lys Pro Thr Ser Ala Pro Gly Ile Phe Gln Arg Leu Leu	
	100 105 110
Cys Trp Glu Gly Phe Leu Leu Ala Val Thr Leu Ala Val Phe Val Val	
	115 120 125
Asn Ala Leu Ala Ser Pro Tyr Phe Leu Asn Ile Trp Asn Leu Ser Asp	
	130 135 140
Ala Thr Phe Asn Phe Thr Glu Lys Ala Ile Ile Val Leu Pro Met Ala	
145	150 155 160
Met Leu Ile Ile Ala Arg Glu Ile Asp Leu Ser Val Ala Ser Thr Ile	
	165 170 175
Ala Leu Ser Ser Thr Val Met Gly Phe Cys Ala Ala Ala Gly Val Asp	
	180 185 190
Thr Pro Leu Leu Val Cys Val Gly Leu Gly Val Gly Leu Leu Cys Gly	
	195 200 205
Leu Phe Asn Gly Ile Leu Val Thr Arg Phe Asn Leu Ser Ser Ile Val	
	210 215 220
Ile Thr Ile Gly Thr Met Ser Leu Tyr Arg Gly Ile Thr Tyr Ile Leu	
225	230 235 240
Leu Gly Asp Gln Ala Leu Asn Ser Tyr Pro Glu Ser Phe Ala Trp Phe	
	245 250 255
Gly Gln Gly Tyr Val Trp Gly Ala Leu Ser Phe Glu Phe Ala Leu Phe	
	260 265 270
Ile Val Leu Ala Ala Leu Phe Ala Phe Val Leu His Arg Thr Asn Phe	
	275 280 285
Gly Arg Arg Thr Tyr Ala Ile Gly Asn Asn Pro Thr Gly Ala Trp Tyr	
	290 295 300
Ser Gly Ile Asn Val Lys Arg His Asn Leu Ile Leu Phe Ala Leu Val	
305	310 315 320
Gly Leu Met Ser Gly Leu Ala Ser Val Leu Leu Thr Ser Arg Leu Gly	

				325					330					335			
Ser	Thr	Arg	Pro	Thr	Ile	Ala	Met	Gly	Trp	Glu	Leu	Ala	Val	Val	Thr		
			340					345					350				
Met	Ala	Val	Leu	Gly	Gly	Val	Asn	Ile	Leu	Gly	Gly	Ser	Gly	Ser	Met		
		355					360					365					
Val	Gly	Val	Ile	Ile	Ala	Ala	Phe	Leu	Met	Gly	Leu	Val	Thr	Phe	Gly		
	370				375						380						
Leu	Ser	Leu	Leu	Asn	Val	Pro	Gly	Ile	Val	Met	Ser	Val	Ile	Ile	Gly		
385				390						395					400		
Ala	Met	Leu	Ile	Val	Val	Ile	Ser	Leu	Pro	Ile	Ile	Thr	Arg	Arg	Ile		
			405						410					415			
Met	Gln	Arg	Arg	Arg	Ile	Ser											
			420														

<210> 10001

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10001

Gly	Pro	Arg	Ala	Val	Pro	Gly	Gly	Phe	Met	Ile	Arg	Lys	Ala	Phe	Val		
1				5				10						15			
Met	Gln	Val	Asn	Pro	Asp	Ala	His	Glu	Glu	Tyr	Ala	Arg	Arg	His	Asn		
			20				25						30				
Pro	Ile	Trp	Pro	Glu	Leu	Glu	Ala	Val	Leu	Lys	Ala	His	Gly	Ala	His		
		35				40						45					
His	Tyr	Ala	Ile	Tyr	Leu	Asp	Lys	Ala	Arg	Asn	Leu	Leu	Phe	Ala	Thr		
	50				55					60							
Val	Glu	Ile	Glu	Ser	Glu	Glu	Arg	Trp	Asn	Ala	Val	Ala	Asn	Thr	Asp		
65				70					75						80		
Val	Cys	Gln	Arg	Trp	Trp	Lys	His	Met	Ala	Asp	Val	Met	Pro	Ser	Asn		
			85					90						95			
Pro	Asp	Asn	Ser	Pro	Val	Ser	Ala	Ala	Leu	Asn	Glu	Val	Phe	Tyr	Leu		
			100					105						110			

Asp

<210> 10002

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10002

Met	Ser	Ile	Arg	Ile	Ile	Pro	Gln	Asp	Glu	Leu	Gly	Ser	Ser	Glu	Lys		
1				5				10						15			
Arg	Thr	Ala	Glu	Tyr	Ile	Pro	Pro	Leu	Leu	Phe	Pro	Arg	Leu	Lys	Asn		
		20					25						30				
Leu	Tyr	Asn	Arg	Arg	Ala	Glu	Arg	Leu	Arg	Glu	Leu	Ala	Glu	Asn	Asn		
		35				40						45					
Pro	Leu	Gly	Asp	Phe	Leu	Arg	Phe	Ala	Ala	Leu	Val	Ala	His	Ala	Gln		
	50				55					60							
Glu	Val	Val	Leu	Tyr	Asp	His	Pro	Leu	Gln	Met	Asp	Leu	Thr	Ala	Arg		
65				70					75						80		
Ile	Lys	Glu	Ala	Asn	Glu	Gln	Gly	Lys	Pro	Pro	Leu	Asp	Ile	His	Val		
			85					90						95			
Leu	Pro	Arg	Asp	Lys	His	Trp	His	Lys	Leu	Leu	His	Ser	Leu	Ile	Ala		
			100					105						110			
Glu	Leu	Lys	Pro	Glu	Met	Ser	Gly	Thr	Ala	Leu	Ala	Val	Ile	Glu	Asn		
		115					120					125					
Leu	Glu	Lys	Ala	Ser	Glu	Gln	Glu	Leu	Glu	Glu	Met	Ala	Ser	Ala	Leu		
	130					135					140						

Phe Ala Ser Asp Phe Ser Leu Val Ser Ser Asp Lys Ala Pro Phe Ile
 145 150 155 160
 Trp Ala Ala Leu Ser Leu Tyr Trp Ala Gln Met Ala Ser Leu Ile Pro
 165 170 175
 Gly Lys Ala Arg Ala Glu Tyr Gly Glu Ala Arg Gln Phe Cys Pro Val
 180 185 190
 Cys Gly Ser Met Pro Val Ser Ser Met Val Gln Ile Gly Thr Thr Gln
 195 200 205
 Gly Leu Arg Tyr Leu His Cys Asn Leu Cys Glu Thr Glu Trp His Val
 210 215 220
 Val Arg Val Lys Cys Ser Asn Cys Glu Gln Thr Arg Asp Leu Asn Tyr
 225 230 235 240
 Trp Ser Leu Glu Asn Glu Asp Ala Ala Val Lys Ala Glu Ser Cys Gly
 245 250 255
 Asp Cys Gly Thr Tyr Leu Lys Ile Leu Tyr Gln Glu Lys Asp Pro Lys
 260 265 270
 Val Glu Ala Val Ala Asp Asp Leu Ala Ser Leu Ile Leu Asp Ala Lys
 275 280 285
 Met Glu Gln Glu Gly Phe Ala Arg Ser Ser Ile Asn Pro Phe Leu Phe
 290 295 300
 Pro Gly Glu Gly Glu
 305 310

<210> 10003

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 10003

Ser Cys Thr Phe Ile Gln Leu Lys Gly Val Phe Met Ala Leu Glu Lys
 1 5 10 15
 Gly Ile Glu Arg Leu Val Gln Gly Phe Ile Ala Ala Gly Arg Pro Ser
 20 25 30
 Ser Arg Arg Gln Thr Ile Glu Val Arg Arg Ala Gly Tyr Ile Ala Ser
 35 40 45
 Thr Glu Leu Ala Gly Lys Thr Glu Thr Arg Val Gln Leu Glu Thr Leu
 50 55 60
 Val Leu Glu Gly Leu Thr Ile Arg Val Phe Ser Pro Leu Asn Ala Pro
 65 70 75 80
 Glu Ile Leu Pro Ala Ala Ile Tyr Tyr His Gly Gly Cys Phe Ile Ser
 85 90 95
 Gly Gly Phe Asp Thr His Asp Asn Gln Leu Arg Gln Leu Ala Tyr Tyr
 100 105 110
 Gly Asn Cys Arg Val Ile Ala Ile Gln Tyr Arg Leu Ala Pro Glu His
 115 120 125
 Thr Phe Pro Ala Ala His Asp Asp Ala Glu Arg Gly Ala Asn Leu Val
 130 135 140
 Trp Gln Tyr Ala Asp Glu Leu Gly Val Asp Lys Asn Arg Leu Thr Leu
 145 150 155 160
 Cys Gly Asp Ser Ala Gly Gly His Leu Ala Leu Val Thr Ser Leu Arg
 165 170 175
 Leu Lys Ala Lys Gly Leu Trp Asp Pro Ala Gln Leu Ile Leu Ile Tyr
 180 185 190
 Pro Met Leu Asp Ala Thr Ala Ser Leu Glu Ser Tyr Thr Leu Asn Gly
 195 200 205
 Met Asp Tyr Val Ile Thr Arg Asp Thr Leu Leu Ser Gly Tyr Glu Met
 210 215 220
 Tyr Leu Ala Gly Ala Asp Arg Gln His Pro Glu Val Ser Pro Leu Trp
 225 230 235 240
 Arg Asn Asp Phe Ser Gly Leu Pro Lys Val His Ile Val Thr Ala Glu
 245 250 255

Tyr Asp Pro Leu Arg Asp Glu Gly Glu Ala Leu Tyr Gln Arg Leu Thr
 260 265 270
 Ala Gln Gly Val Lys Cys Thr Ala Gln Gln Trp Arg Gly Val Ile His
 275 280 285
 Gly Phe Phe Gln Leu Gly Gly Ile Ser Gln Ser Ala Arg Asp Ile Met
 290 295 300
 Arg Asp Ile Ala Trp Arg Ile Asn His Ala Gly Arg Glu
 305 310 315

<210> 10004

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10004

Gln Glu Arg Gly Met Ser Ala Ile Ala Phe Ile Gly Leu Gly Gln Met
 1 5 10 15
 Gly Ala Pro Met Ala Lys Asn Leu Leu Lys Gln Gly His Gln Leu Asn
 20 25 30
 Val Phe Asp Val Asn Pro Gln Ala Ile Gln Ala Leu Val Glu Ser Gly
 35 40 45
 Ala Arg Ala Ala Ala Thr Pro Ala Gln Ala Ala Thr Asp Ala Glu Phe
 50 55 60
 Val Ile Thr Met Leu Pro Asn Gly Asp Leu Val Arg Ser Val Leu Phe
 65 70 75 80
 Gly Glu His Gly Val Cys Glu Gly Leu Ser Arg Asp Ala Leu Val Ile
 85 90 95
 Asp Met Ser Thr Ile His Pro Leu Gln Thr Asp Ala Leu Ile Arg Asp
 100 105 110
 Met Ala Glu Gln Gly Phe Ser Leu Met Asp Val Pro Val Gly Arg Thr
 115 120 125
 Ser Asp His Ala Ile Ala Gly Thr Leu Leu Leu Ala Gly Gly Thr
 130 135 140
 Ala Gln Gln Val Glu Arg Ala Thr Pro Val Leu Met Ala Met Gly Asn
 145 150 155 160
 Glu Leu Ile Asn Ala Gly Gly Pro Gly Met Gly Ile Arg Val Lys Leu
 165 170 175
 Ile Asn Asn Tyr Met Ser Ile Ala Leu Asn Ala Leu Ser Ala Glu Ala
 180 185 190
 Ala Val Leu Cys Glu Ala Leu Gly Leu Ser Phe Asp Val Ala Leu Lys
 195 200 205
 Val Met Ser Gly Thr Pro Ala Gly Lys Gly His Phe Thr Thr Ser Trp
 210 215 220
 Pro Asn Lys Val Leu Lys Gly Asp Leu Ser Pro Ala Phe Met Ile Asp
 225 230 235 240
 Leu Ala His Lys Asp Leu Gly Ile Ala Leu Asp Val Ala Asn Gln Leu
 245 250 255
 His Val Pro Met Pro Leu Gly Ala Ala Ser Arg Glu Val Tyr Asn Gln
 260 265 270
 Ala Arg Ala Ala Gly Arg Gly Arg Glu Asp Trp Thr Ala Ile Leu Glu
 275 280 285
 Gln Val Arg Ala Ser Ala Gly Leu Lys Lys Ser His
 290 295 300

<210> 10005

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10005

Gly Ser Thr Met Thr His Asn Thr Asp Pro Leu Thr Leu Lys Leu Ser

1				5					10				15	
Leu	Arg	Glu	Lys	Cys	Ala	Tyr	Gly	Met	Gly	Asp	Phe	Gly	Ser	Asn
			20					25					30	Leu
Met	Leu	Cys	Ile	Gly	Thr	Leu	Tyr	Leu	Leu	Lys	Phe	Tyr	Thr	Asp
		35					40					45		Glu
Leu	Gly	Met	Pro	Ala	Phe	Tyr	Gly	Gly	Ile	Ile	Phe	Leu	Val	Ala
	50					55					60			Lys
Phe	Phe	Thr	Ala	Phe	Thr	Asp	Met	Leu	Thr	Gly	Val	Leu	Leu	Asp
65					70					75				80
Arg	Arg	Asn	Ile	Gly	Ala	Arg	Gly	Lys	Phe	Arg	Pro	Phe	Ile	Leu
			85						90					Tyr
Ala	Ser	Val	Pro	Val	Ala	Leu	Val	Ala	Thr	Ala	Gln	Phe	Met	Ala
			100					105					110	Asn
Asp	Phe	Ser	Leu	Thr	Val	Lys	Thr	Ala	Leu	Ala	Thr	Val	Leu	Phe
		115					120					125		Met
Met	Phe	Gly	Leu	Cys	Tyr	Ser	Leu	Met	Asn	Cys	Ala	Tyr	Gly	Ala
	130					135					140			Met
Val	Pro	Ala	Ile	Thr	Lys	Asn	Pro	Asn	Glu	Arg	Ala	Gln	Leu	Ala
145					150					155				Ala
Trp	Arg	Gln	Gly	Gly	Ala	Thr	Val	Gly	Leu	Leu	Leu	Cys	Thr	Val
			165						170					Gly
Phe	Met	Pro	Ile	Gln	Ala	Leu	Phe	Val	Ser	Gln	Pro	Ser	Leu	Gly
			180					185					190	Tyr
Leu	Val	Ala	Ala	Leu	Val	Phe	Val	Thr	Gly	Gly	Leu	Phe	Cys	Met
		195					200					205		Trp
Trp	Cys	Tyr	Ser	Gly	Val	Lys	Glu	Arg	Tyr	Val	Glu	Leu	Thr	Pro
	210					215					220			Asp
His	His	Lys	Pro	Gly	Ile	Leu	Lys	Ser	Phe	Cys	Ala	Ile	Phe	Arg
225					230					235				Asn
Pro	Pro	Leu	Leu	Val	Leu	Cys	Ile	Ala	Asn	Leu	Cys	Thr	Leu	Ala
				245					250					Ala
Phe	Asn	Ile	Lys	Leu	Ala	Ile	Gln	Val	Tyr	Tyr	Thr	Gln	Tyr	Val
			260					265					270	Leu
Asn	Asp	Val	His	Leu	Leu	Ser	Trp	Met	Gly	Phe	Phe	Ser	Met	Gly
		275					280					285		Cys
Ile	Leu	Ile	Gly	Val	Phe	Leu	Val	Pro	Gly	Ala	Val	Lys	Arg	Phe
	290					295					300			Gly
Lys	Lys	Pro	Val	Tyr	Leu	Gly	Gly	Leu	Thr	Leu	Trp	Ala	Val	Gly
305					310					315				Asp
Val	Leu	Asn	Phe	Val	Trp	Gly	Thr	Ser	Ser	Leu	Leu	Phe	Val	Leu
				325					330					Phe
Ser	Cys	Met	Ala	Phe	Phe	Gly	Thr	Ala	Phe	Val	Asn	Ser	Leu	Asn
			340					345					350	Trp
Ala	Leu	Val	Pro	Asp	Thr	Val	Asp	Tyr	Gly	Glu	Trp	Lys	Thr	Gly
		355					360					365		Ile
Arg	Ala	Glu	Gly	Ser	Val	Tyr	Thr	Gly	Tyr	Thr	Phe	Ser	Arg	Lys
	370					375					380			Ile
Ser	Ala	Ala	Leu	Ala	Gly	Phe	Leu	Pro	Gly	Ile	Met	Leu	Thr	Gln
385					390					395				Ile
Gly	Tyr	Val	Pro	His	Ala	Val	Gln	Ser	Ala	Gly	Thr	Leu	Leu	Gly
				405					410					Leu
Arg	Gln	Leu	Ile	Phe	Leu	Trp	Pro	Cys	Gly	Leu	Ala	Ile	Val	Ala
			420					425					430	Ala
Val	Thr	Met	Gly	Leu	Phe	Tyr	Lys	Leu	Asn	Glu	Ala	Arg	Phe	Ala
		435					440					445		Phe
Ile	Ile	Glu	Glu	Ile	Gly	Lys	Arg	Lys	Lys	Gln	Thr	Ala	Asn	Thr
	450					455					460			Pro
Glu	Ile	Thr	Thr	Asn	Asn	Lys	Ala	Ser	Ala	Val	Thr	Leu		
465					470					475				

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 10006

Lys	Ile	Lys	Val	Thr	Phe	Met	Gln	Arg	Gly	Ile	Val	Trp	Val	Val	Asp
1				5					10					15	
Asp	Asp	Ser	Ser	Ile	Arg	Trp	Val	Leu	Glu	Arg	Ala	Leu	Thr	Gly	Ala
		20					25					30			
Gly	Leu	Ser	Cys	Thr	Thr	Phe	Glu	Ser	Gly	Ser	Glu	Val	Leu	Asp	Ala
	35						40				45				
Leu	Thr	Thr	Lys	Thr	Pro	Asp	Val	Leu	Leu	Ser	Asp	Ile	Arg	Met	Pro
	50					55					60				
Gly	Met	Asp	Gly	Leu	Ala	Leu	Leu	Lys	Gln	Ile	Lys	Gln	Arg	His	Pro
65				70					75					80	
Met	Leu	Pro	Val	Ile	Ile	Met	Thr	Ala	His	Ser	Asp	Leu	Asp	Ala	Ala
			85					90						95	
Val	Ser	Ala	Tyr	Gln	Gln	Gly	Ala	Phe	Asp	Tyr	Leu	Pro	Lys	Pro	Phe
	100						105						110		
Asp	Ile	Asp	Glu	Ala	Val	Ala	Leu	Val	Glu	Arg	Ala	Ile	Ser	His	Tyr
	115						120					125			
Gln	Glu	Gln	Gln	Gln	Pro	Arg	His	Ala	Pro	Asp	Phe	Gly	Pro	Thr	Thr
	130					135					140				
Asp	Ile	Ile	Gly	Glu	Ala	Pro	Ala	Met	Gln	Asp	Val	Phe	Arg	Ile	Ile
145				150					155					160	
Gly	Arg	Leu	Ser	Arg	Ser	Ser	Ile	Ser	Val	Leu	Ile	Asn	Gly	Glu	Ser
			165					170						175	
Gly	Thr	Gly	Lys	Glu	Leu	Val	Ala	His	Ala	Leu	His	Arg	His	Ser	Pro
	180						185						190		
Arg	Ala	Lys	Ala	Pro	Phe	Ile	Ala	Leu	Asn	Met	Ala	Ala	Ile	Pro	Lys
	195						200					205			
Asp	Leu	Ile	Glu	Ser	Glu	Leu	Phe	Gly	His	Glu	Lys	Gly	Ala	Phe	Thr
	210					215					220				
Gly	Ala	Asn	Thr	Ile	Arg	Gln	Gly	Arg	Phe	Glu	Gln	Ala	Asp	Gly	Gly
225				230					235					240	
Thr	Leu	Phe	Leu	Asp	Glu	Ile	Gly	Asp	Met	Pro	Leu	Asp	Val	Gln	Thr
			245					250						255	
Arg	Leu	Leu	Arg	Val	Leu	Ala	Asp	Gly	Gln	Phe	Tyr	Arg	Val	Gly	Gly
	260						265						270		
Tyr	Ala	Pro	Val	Lys	Val	Asp	Val	Arg	Ile	Ile	Ala	Ala	Thr	His	Gln
	275						280					285			
Asn	Leu	Glu	Leu	Arg	Val	Gln	Glu	Gly	Lys	Phe	Arg	Glu	Asp	Leu	Phe
	290					295					300				
His	Arg	Leu	Asn	Val	Ile	Arg	Val	His	Leu	Pro	Pro	Leu	Arg	Glu	Arg
305				310					315					320	
Arg	Glu	Asp	Ile	Pro	Arg	Leu	Ala	Arg	His	Phe	Leu	Gln	Val	Ala	Ala
			325					330						335	
Arg	Glu	Leu	Gly	Val	Glu	Ala	Lys	Gln	Leu	His	Gln	Glu	Thr	Asp	Ala
		340					345						350		
Ala	Leu	Thr	Arg	Leu	Ala	Trp	Pro	Gly	Asn	Val	Arg	Gln	Leu	Glu	Asn
	355					360						365			
Thr	Cys	Arg	Trp	Leu	Thr	Val	Met	Ala	Ala	Gly	Gln	Glu	Val	Leu	Ile
	370					375					380				
Gln	Asp	Leu	Pro	Ala	Glu	Leu	Phe	Glu	Ala	Thr	Val	Pro	Glu	Ser	Thr
385				390					395					400	
Ala	Gly	His	Ala	Leu	Pro	Asp	Ser	Trp	Ala	Thr	Leu	Leu	Ala	Gln	Trp
			405					410						415	
Ala	Asp	Arg	Ala	Leu	Arg	Ser	Gly	His	Gln	Asn	Leu	Leu	Ser	Glu	Ala
		420					425						430		
Gln	Pro	Glu	Met	Glu	Arg	Thr	Leu	Leu	Thr	Thr	Ala	Leu	Arg	His	Thr
	435						440					445			

Gln Gly His Lys Gln Glu Ala Ala Arg Leu Leu Gly Trp Gly Arg Asn
 450 455 460
 Thr Leu Thr Arg Lys Leu Lys Glu Leu Gly Met Glu
 465 470 475

<210> 10007

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10007

Cys Ala Asp Leu Ser Ser Ser Arg Gly Gly Arg His Lys Ala Leu Met
 1 5 10 15
 Ala Thr Glu Gly Val Asn Ile Glu Phe Thr Asp Asp Gly Ile Lys Arg
 20 25 30
 Ile Ala Gln Ala Ala Trp Gln Val Asn Glu Thr Thr Glu Asn Ile Gly
 35 40 45
 Ala Arg Arg Leu His Thr Val Leu Glu Arg Leu Met Glu Asp Ile Ser
 50 55 60
 Tyr Asp Ala Ser Asp Leu Asn Gly Gln Ser Ile Thr Ile Asp Ala Asp
 65 70 75 80
 Tyr Val Gly Lys His Leu Asp Ala Leu Val Ala Asp Glu Asp Leu Ser
 85 90 95
 Arg Phe Ile Leu
 100

<210> 10008

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10008

Arg Pro Gly Ala Met Leu Met Lys Ser Ser Ala His Ser Leu Tyr Leu
 1 5 10 15
 Cys Leu Ala Met Leu Ser Ala Ser Phe Ser Leu Tyr Ala Thr Glu Thr
 20 25 30
 Ala Ser Pro Val Thr Ala Pro Tyr Leu Leu Ala Gly Ala Pro Ser Phe
 35 40 45
 Asp Gln Ser Ile Ser Gln Phe Arg Glu Ala Phe Asn Lys Glu Asn Pro
 50 55 60
 Ser Leu Pro Leu Gly Glu Phe Arg Ala Ile Asp Ser Ala Arg Asp Thr
 65 70 75 80
 Pro Thr Leu Thr Arg Ala Ala Ser Lys Ile Asn Glu Asn Leu Tyr Ala
 85 90 95
 Ser Thr Ala Leu Glu Arg Gly Thr Leu Lys Ile Lys Ser Met Gln Ile
 100 105 110
 Thr Trp Leu Pro Ile Gln Gly Pro Glu Gln Lys Ala Ala Lys Ala Lys
 115 120 125
 Ala Leu Glu Tyr Met Ser Ala Ile Leu Arg Ala Phe Thr Pro Thr Phe
 130 135 140
 Thr Lys Ala Gln Ser Gln Gln Lys Leu Gln Lys Leu Leu Thr Ala Gly
 145 150 155 160
 Lys Asn Lys Arg Tyr Tyr Ala Asp Thr Glu Gly Ala Val Arg Tyr Val
 165 170 175
 Val Ala Asp Asn Gly Glu Lys Gly Leu Thr Phe Ala Val Glu Pro Ile
 180 185 190
 Lys Leu Ala Leu Ser Asp Ala Leu Glu Gly Ala Asn
 195 200 205

<210> 10009

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10009

Ala	Trp	Arg	Ile	Glu	Met	Arg	His	Pro	Leu	Val	Met	Gly	Asn	Trp	Lys
1				5					10					15	
Leu	Asn	Gly	Ser	Arg	His	Met	Val	Asn	Glu	Leu	Val	Ala	Asn	Leu	Arg
		20						25					30		
Lys	Glu	Leu	Ala	Gly	Val	Thr	Gly	Cys	Ala	Val	Ala	Ile	Ala	Pro	Pro
		35					40					45			
Asp	Met	Tyr	Leu	Asp	Leu	Ala	Lys	Arg	Ala	Ala	Asp	Gly	Ser	His	Ile
	50					55					60				
Ile	Leu	Gly	Ala	Gln	Asn	Val	Asp	Val	Asn	Leu	Ser	Gly	Ala	Phe	Thr
65				70						75					80
Gly	Glu	Thr	Ser	Ala	Glu	Met	Leu	Lys	Asp	Ile	Gly	Ala	Lys	Tyr	Ile
				85					90					95	
Ile	Ile	Gly	His	Ser	Glu	Arg	Arg	Thr	Tyr	His	Lys	Glu	Ser	Asp	Glu
			100					105					110		
Phe	Ile	Ala	Lys	Lys	Phe	Ala	Val	Leu	Lys	Glu	Gln	Gly	Leu	Ile	Pro
		115					120					125			
Val	Leu	Cys	Ile	Gly	Glu	Thr	Glu	Ala	Glu	Asn	Glu	Ala	Gly	Lys	Thr
	130					135					140				
Glu	Glu	Val	Cys	Ala	Arg	Gln	Ile	Asp	Ala	Val	Leu	Lys	Thr	Gln	Gly
145				150						155					160
Ala	Ala	Ala	Phe	Glu	Gly	Ala	Val	Ile	Ala	Tyr	Glu	Pro	Val	Trp	Ala
				165					170					175	
Ile	Gly	Thr	Gly	Lys	Ser	Ala	Thr	Pro	Ala	Gln	Ala	Gln	Ala	Val	His
			180					185					190		
Lys	Phe	Ile	Arg	Asp	His	Ile	Ala	Lys	Ala	Asp	Ala	Lys	Val	Ala	Glu
	195						200					205			
Gln	Val	Ile	Ile	Gln	Tyr	Gly	Gly	Ser	Val	Asn	Ala	Ser	Asn	Ala	Ala
	210					215					220				
Glu	Leu	Phe	Thr	Gln	Pro	Asp	Ile	Asp	Gly	Ala	Leu	Val	Gly	Gly	Ala
225				230						235					240
Ser	Leu	Lys	Ala	Asp	Ala	Phe	Ala	Val	Ile	Val	Lys	Ala	Ala	Glu	Ala
				245					250					255	
Ala	Lys	Gln	Ala												
			260												

<210> 10010

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10010

Arg	Arg	Ser	Ser	Leu	Val	Gln	Asn	Pro	Ala	Trp	Ser	Trp	Leu	Ser	Asp
1				5					10					15	
Gly	Phe	Arg	Phe	Met	Ile	Gly	Ser	Leu	Thr	Ala	Arg	Ile	Phe	Ala	Ile
		20						25					30		
Phe	Trp	Leu	Thr	Leu	Ala	Leu	Val	Leu	Met	Leu	Val	Leu	Met	Leu	Pro
		35					40					45			
Lys	Leu	Asp	Ser	Arg	Gln	Met	Thr	Glu	Leu	Leu	Asp	Ser	Glu	Gln	Arg
	50					55					60				
Gln	Gly	Val	Met	Ile	Glu	Gln	His	Val	Glu	Ala	Glu	Leu	Ala	Asn	Asp
65				70						75					80
Pro	Pro	Asn	Asp	Leu	Met	Trp	Trp	Arg	Arg	Leu	Phe	Arg	Ala	Ile	Asp
				85					90					95	
Lys	Trp	Ala	Pro	Pro	Gly	Gln	Arg	Leu	Leu	Leu	Val	Thr	Ser	Glu	Gly
		100						105					110		
Arg	Val	Ile	Gly	Ala	Asp	Arg	Asn	Glu	Met	Gln	Ile	Ile	Arg	Asn	Phe
		115						120					125		

```

Ile Gly Gln Ala Asp Asn Ala Asp His Pro Gln Lys Lys Lys Tyr Gly
130 135 140
Arg Val Glu Met Val Gly Pro Phe Ser Val Arg Asp Gly Glu Asp Asn
145 150 155 160
Tyr Gln Leu Tyr Leu Ile Arg Pro Ala Ser Ser Ser Gln Ser Asp Phe
165 170 175
Ile Asn Leu Leu Phe Asp Arg Pro Leu Leu Leu Leu Ile Val Thr Met
180 185 190
Leu Val Ser Ser Pro Leu Leu Leu Trp Leu Ala Trp Ser Leu Ala Lys
195 200 205
Pro Ala Arg Lys Leu Lys Asn Ala Ala Asp Glu Val Ala Gln Gly Asn
210 215 220
Leu Arg Gln His Pro Glu Leu Glu Ser Gly Pro Gln Glu Phe Leu Ala
225 230 235 240
Ala Gly Thr Ser Phe Asn Gln Met Val Ser Ala Leu Asp Arg Met Met
245 250 255
Thr Ala Gln Gln Arg Leu Leu Ser Asp Ile Ser His Glu Leu Arg Thr
260 265 270
Pro Leu Thr Arg Leu Gln Leu Gly Thr Ala Leu Leu Arg Arg Arg Ser
275 280 285
Gly Glu Ser Lys Glu Leu Glu Arg Ile Glu Thr Glu Ala His Arg Leu
290 295 300
Asp Ser Met Ile Asn Asp Leu Leu Val Met Ser Arg Asn Gln Gln Lys
305 310 315 320
Asn Ala Leu Val Ser Glu Thr Val Lys Ala Asn His Leu Trp His Glu
325 330 335
Val Leu Asp Asn Ala Ala Phe Glu Ala Glu Gln Met Gly Lys Ser Phe
340 345 350
Thr Val Asn Phe Pro Pro Gly Pro Trp Pro Leu Tyr Gly Asn Pro Asn
355 360 365
Ala Leu Glu Ser Ala Leu Glu Asn Ile Val Arg Asn Ala Leu Arg Tyr
370 375 380
Ser His Thr Lys Ile Glu Val Ala Phe Ser Val Asp Lys Asp Gly Ile
385 390 395 400
Thr Val Ile Val Asp Asp Asp Gly Pro Gly Val Ser Pro Glu Asp Arg
405 410 415
Glu Gln Ile Phe Arg Pro Phe Tyr Arg Thr Asp Glu Ala Arg Asp Arg
420 425 430
Glu Ser Gly Gly Thr Gly Leu Gly Leu Ala Ile Val Glu Thr Ala Met
435 440 445
Gln Gln His Arg Gly Trp Val Lys Ala Asp Asp Ser Pro Leu Gly Gly
450 455 460
Leu Arg Leu Thr Leu Trp Leu Pro Leu Tyr Lys Arg Ser
465 470 475

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<210> 10011

<211> 569

<212> PRT

<213> Enterobacter cloacae

<400> 10011

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Ile Phe Asp Ser Lys Pro Arg Lys Ser Cys Arg Phe Phe Lys Lys Gln
1 5 10 15
Ala Glu Arg Ser Gly Asn Ala Val Ser Val Thr Leu Pro Ala Asn Pro
20 25 30
Ala Ile Thr Gly Asn Cys Glu Leu Pro His Val His Leu Cys Phe Leu
35 40 45
Ala Ser Ala Arg Phe Gly Leu Ser Val Ala Arg Arg Trp Leu Phe Leu
50 55 60
Pro Phe Leu Thr Leu Leu Ala Asn Asp Leu Arg Lys Asp Pro Thr Met
65 70 75 80

```

Thr	Phe	Arg	His	Cys	Val	Ala	Val	Asp	Leu	Gly	Ala	Ser	Ser	Gly	Arg
				85					90					95	
Val	Met	Leu	Ala	Thr	Trp	Asp	Cys	Asp	Leu	His	Thr	Leu	Thr	Leu	Arg
			100					105					110		
Glu	Met	His	Arg	Phe	Ala	Asn	Cys	Leu	Gln	Lys	Gln	Asp	Gly	Phe	Val
		115					120					125			
Thr	Trp	Asp	Ile	Asp	Ala	Leu	Glu	Ala	Glu	Ile	Arg	Thr	Gly	Leu	His
	130					135					140				
Asn	Val	Cys	Glu	Asp	Gly	Ile	Arg	Ile	Asp	Ser	Ile	Gly	Ile	Asp	Thr
145					150					155					160
Trp	Gly	Val	Asp	Tyr	Val	Leu	Leu	Asp	Arg	His	Gly	Glu	Arg	Val	Gly
				165					170					175	
Leu	Pro	Val	Ser	Tyr	Arg	Asp	Ser	Arg	Thr	Asp	Gly	Leu	Met	Ala	His
			180					185					190		
Ala	Ile	Ala	Gln	Leu	Gly	Lys	Glu	Asn	Ile	Tyr	Gly	Arg	Ser	Gly	Ile
		195					200					205			
Gln	Phe	Leu	Pro	Phe	Asn	Thr	Leu	Tyr	Gln	Leu	Arg	Ala	Leu	Val	Glu
	210					215					220				
Gln	Gln	Pro	Glu	Leu	Val	Glu	Lys	Val	Ala	His	Ala	Leu	Leu	Ile	Pro
225					230					235					240
Asp	Tyr	Leu	Ser	Tyr	Arg	Leu	Thr	Gly	Asn	Met	Asn	Trp	Glu	Tyr	Thr
				245					250					255	
Asn	Ala	Thr	Thr	Thr	Gln	Leu	Val	Asn	Ile	Asn	Thr	Asp	Asn	Trp	Asp
			260					265					270		
Glu	His	Leu	Leu	Ala	Trp	Thr	Gly	Ala	Ser	Pro	Ser	Trp	Phe	Gly	Ala
		275					280					285			
Pro	Thr	His	Pro	Gly	Asn	Val	Ile	Gly	His	Trp	Leu	Cys	Pro	Gln	Gly
	290				295						300				
Asn	Lys	Ile	Pro	Val	Val	Ala	Val	Ala	Ser	His	Asp	Thr	Ala	Ser	Ala
305					310					315					320
Val	Ile	Ala	Ser	Pro	Leu	Ala	Gly	Lys	Asp	Ala	Ala	Tyr	Leu	Ser	Ser
				325					330					335	
Gly	Thr	Trp	Ser	Leu	Met	Gly	Phe	Glu	Ser	Lys	Thr	Pro	Tyr	Thr	Ser
			340					345					350		
Asp	Ala	Ala	Leu	Ala	Ala	Asn	Ile	Thr	Asn	Glu	Gly	Gly	Ala	Glu	Gly
		355					360					365			
Arg	Tyr	Arg	Val	Leu	Lys	Asn	Ile	Met	Gly	Leu	Trp	Leu	Leu	Gln	Arg
	370					375					380				
Val	Leu	Lys	Glu	Gln	Asn	Ile	Thr	Asp	Leu	Pro	Glu	Leu	Ile	Ala	Glu
385					390					395					400
Thr	Glu	Thr	Leu	Lys	Ala	Cys	Thr	Phe	Leu	Ile	Asn	Pro	Asn	Asp	Asp
				405					410					415	
Arg	Phe	Ile	Asn	Pro	Ala	His	Met	Ser	Ala	Glu	Ile	Gln	Ala	Ala	Cys
			420					425					430		
Phe	Glu	Ala	Gly	Gln	Pro	Val	Pro	Ser	Arg	Pro	Ala	Glu	Leu	Ala	Arg
		435					440					445			
Cys	Ile	Phe	Asp	Ser	Leu	Ala	Leu	Leu	Tyr	Ala	Asp	Ile	Leu	Ser	Glu
	450					455					460				
Leu	Ala	Asp	Leu	Arg	Gly	Lys	Pro	Phe	Thr	Gln	Leu	His	Ile	Val	Gly
465					470					475					480
Gly	Gly	Cys	Gln	Asn	Gln	Leu	Leu	Asn	Gln	Leu	Cys	Ala	Asp	Ala	Cys
				485					490					495	
Gly	Ile	Thr	Val	Val	Ala	Gly	Pro	Ile	Glu	Ala	Ser	Thr	Leu	Gly	Asn
			500					505					510		
Ile	Gly	Ile	Gln	Leu	Met	Thr	Leu	Asp	Glu	Leu	Ser	Asn	Val	Asp	Asp
		515					520					525			
Phe	Arg	Ser	Val	Val	Thr	Ala	Asn	Asn	Ser	Leu	Thr	Thr	Phe	Thr	Pro
		530				535					540				
His	Pro	Cys	His	Glu	Ile	Ala	Arg	Tyr	Arg	Ala	Gln	Phe	Gln	Gln	Lys
545					550					555					560
Arg	Leu	Thr	Lys	Glu	Leu	Cys	Ala								

565

<210> 10012
 <211> 361
 <212> PRT
 <213> Enterobacter cloacae

<400> 10012

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Ile Cys Thr Asn Asn Asn Ile Ala Pro Arg Ser Pro Arg Arg Gly Glu
1      5      10      15
Asn His Leu Gln Ser Leu Gln Leu Thr Gln Val Ser Gly Val Lys Ala
20      25      30
Met Lys Ile Lys Ala Ser Leu Ile Leu Thr Val Ala Ala Leu Ala Leu
35      40      45
Ser Gly Ser Ala Leu Ala Glu Val Lys Ile Ala Leu Val Ala Lys Ser
50      55      60
Leu Gly Asn Gly Phe Phe Glu Ala Ala Asn Val Gly Ala Gln Glu Ala
65      70      75      80
Ala Lys Glu Leu Gly Asp Val Lys Val Ile Tyr Thr Gly Pro Thr Thr
85      90      95
Thr Thr Ala Glu Ala Gln Ile Glu Val Leu Asn Gly Leu Ile Ala Gln
100     105     110
Gly Val Asp Ala Ile Ala Ile Ser Ala Asn Asp Pro Asp Ala Val Val
115     120     125
Pro Val Leu Lys Lys Ala Met Gln Arg Gly Ile Lys Val Val Ser Trp
130     135     140
Asp Ser Gly Val Ala Lys Ala Gly Arg Gln Ile His Leu Asn Pro Ser
145     150     155     160
Asn Asn Ala Leu Ile Gly Glu Thr Asn Val Lys Leu Ala Ala Asp Ala
165     170     175
Leu Lys Ala Leu Asn Val Glu Lys Gly Glu Val Ala Val Leu Ser Ala
180     185     190
Thr Pro Thr Ser Thr Asn Gln Asn Thr Trp Ile Ala Glu Met Lys Lys
195     200     205
Val Leu Pro Lys Tyr Pro Ser Val Asn Leu Val Thr Val Ala Tyr Gly
210     215     220
Asp Asp Leu Ser Asp Lys Ser Tyr Arg Glu Ala Val Gly Leu Leu Lys
225     230     235     240
Thr Tyr Pro Glu Leu Lys Val Ile Val Ser Pro Ser Ser Val Gly Ile
245     250     255
Val Ala Ala Ala Gln Ala Val Lys Asp Gln Gly Lys Ile Gly Lys Val
260     265     270
Tyr Val Thr Gly Leu Gly Leu Pro Ser Glu Met Ala Gly Ala Val Lys
275     280     285
Ser Gly Ala Ser Lys Ser Phe Ala Ile Trp Asn Pro Ile Asp Leu Gly
290     295     300
Tyr Ala Ala Thr Tyr Leu Ala Asp Asp Leu Val Lys Gly Thr Ala Thr
305     310     315     320
Lys Gly-Glu Ala Ser Met Gly Lys Leu Gly Lys Val Lys Leu Asp Ala
325     330     335
Asp Gly Asn Gly Ala Met Ala Glu Pro Phe Val Tyr Asp Ala Ser Asn
340     345     350
Ile Asp Lys Phe Ser Lys Ile Phe
355     360

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<210> 10013
 <211> 507
 <212> PRT
 <213> Enterobacter cloacae

<400> 10013

Thr	Lys	Arg	Arg	Thr	Ile	Met	Thr	Pro	Leu	Leu	Gln	Leu	Ser	Gly	Ile
1				5					10					15	
Thr	Lys	Val	Phe	Pro	Gly	Val	Arg	Ala	Leu	Glu	Asn	Val	Gln	Leu	Ala
			20					25					30		
Leu	Trp	Pro	Gly	Lys	Val	Thr	Ala	Leu	Ile	Gly	Glu	Asn	Gly	Ala	Gly
		35					40					45			
Lys	Ser	Thr	Leu	Val	Lys	Val	Met	Thr	Gly	Ile	Tyr	Gln	Pro	Asp	Glu
	50					55					60				
Gly	Glu	Ile	Leu	Tyr	Lys	Ala	Ile	Pro	Val	His	Leu	Pro	Thr	Pro	Glu
65					70					75					80
Ser	Ala	His	Lys	Met	Gly	Ile	Thr	Ala	Ile	His	Gln	Glu	Thr	Val	Leu
				85					90					95	
Phe	Asp	Glu	Leu	Ser	Val	Thr	Glu	Asn	Ile	Phe	Val	Gly	Gln	Tyr	Leu
			100					105					110		
His	Lys	Gly	Phe	Leu	Lys	Lys	Leu	Asp	Trp	Pro	Glu	Met	His	Arg	Arg
		115					120					125			
Ala	Gln	Ala	Ile	Leu	Ala	Arg	Leu	Glu	Val	Gln	Ile	Asp	Pro	Arg	Ala
		130					135					140			
Thr	Leu	Lys	Thr	Leu	Ser	Ile	Ala	Gln	Arg	His	Met	Val	Ala	Ile	Ala
145					150					155					160
Arg	Ala	Leu	Ser	Phe	Glu	Ala	Gln	Val	Val	Ile	Leu	Asp	Glu	Pro	Thr
				165					170					175	
Ala	Ala	Leu	Ser	Gln	His	Glu	Ile	Leu	Glu	Phe	Tyr	Gln	Ile	Val	Glu
			180					185					190		
Arg	Leu	Lys	Gln	Glu	Gly	Lys	Ala	Ile	Leu	Phe	Ile	Ser	His	Lys	Phe
		195					200					205			
Asp	Glu	Ile	Phe	Glu	Leu	Ala	Asp	His	Tyr	Thr	Ile	Leu	Arg	Asp	Gly
	210					215					220				
Val	Phe	Val	Gly	Ala	Gly	Ala	Ile	Asn	Glu	Ile	Thr	Glu	Glu	Arg	Met
225					230					235					240
Val	Ser	Met	Met	Val	Gly	Arg	Ala	Ile	Thr	Gln	Thr	Phe	Pro	Lys	Ile
				245					250					255	
Asp	Cys	Glu	Lys	Gly	Glu	Thr	Val	Leu	Glu	Val	Gln	Asn	Leu	Cys	His
		260						265					270		
Pro	Thr	Glu	Phe	Ala	His	Ile	Ser	Phe	Ser	Leu	Arg	Lys	Gly	Glu	Ile
		275					280					285			
Leu	Gly	Phe	Tyr	Gly	Leu	Val	Gly	Ala	Gly	Arg	Thr	Glu	Leu	Met	Gln
	290					295					300				
Ala	Leu	Ser	Gly	Val	Thr	Arg	Pro	Ser	Ser	Gly	Glu	Ile	Ile	Leu	Asn
305					310					315					320
Gly	Gln	Pro	Arg	Arg	Phe	Arg	Gln	Pro	Ala	Asp	Ala	Ile	Lys	Ala	Gly
				325					330					335	
Ile	Val	Cys	Val	Pro	Glu	Glu	Arg	Gln	Lys	Gln	Gly	Ala	Ile	Ile	Ala
			340					345					350		
Leu	Pro	Ile	Ala	Gln	Asn	Ile	Ser	Leu	Pro	Gln	Leu	Ser	Thr	Leu	Asn
		355					360					365			
Pro	Asn	Gly	Val	Leu	His	Asp	Arg	Glu	Trp	Lys	Leu	Ala	Asn	Glu	
	370					375				380					
Tyr	Ala	Lys	Arg	Leu	Gln	Val	Lys	Ala	Phe	Ser	Trp	Lys	Gln	Ala	Val
385					390				395						400
Glu	Thr	Leu	Ser	Gly	Gly	Asn	Gln	Gln	Lys	Val	Val	Ile	Gly	Lys	Trp
				405					410					415	
Leu	Ala	Thr	His	Pro	Asp	Val	Ile	Ile	Leu	Asp	Glu	Pro	Thr	Lys	Gly
			420					425					430		
Ile	Asp	Ile	Gly	Ser	Lys	Ala	Ala	Val	His	Gln	Phe	Met	Ser	Glu	Leu
		435					440					445			
Val	Ser	Gln	Gly	Leu	Ala	Val	Ile	Met	Val	Ser	Ser	Glu	Leu	Pro	Glu
	450					455					460				
Val	Met	Gly	Met	Ala	Asp	Arg	Ile	Ile	Val	Met	His	Glu	Gly	Leu	Met
465					470					475					480
Val	Ala	Glu	Tyr	Gln	Ala	Gly	Asp	Ala	Thr	Ala	Glu	Thr	Ile	Val	Ser

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<210> 10014
<211> 335
<212> PRT
<213> Enterobacter cloacae
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<210> 10015
<211> 388
<212> PRT
<213> Enterobacter cloacae
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<400> 10015
Leu Arg Arg Ile Ile Met Ser Phe Met Leu Ala Leu Pro Lys Ile Ser
1 5 10 15

Leu His Gly Ala Gly Ala Ile Gly Asp Met Val Asn Leu Val Ala Asn
 20 25 30
 Lys Gln Trp Gly Lys Ala Leu Ile Val Thr Asp Gly Gln Leu Val Lys
 35 40 45
 Leu Gly Leu Leu Asp Ser Leu Phe Thr Ala Leu Asp Ala His Gln Met
 50 55 60
 Ser Tyr His Leu Phe Asp Glu Val Phe Pro Asn Pro Thr Glu Ala Leu
 65 70 75 80
 Val Gln Lys Gly Tyr Ala Ala Tyr Gln Asp Ala Glu Cys Asp Tyr Leu
 85 90 95
 Ile Ala Phe Gly Gly Gly Ser Pro Ile Asp Thr Ala Lys Ala Ile Lys
 100 105 110
 Ile Leu Thr Ala Asn Pro Gly Pro Ser Thr Asp Tyr Ser Gly Val Gly
 115 120 125
 Lys Val Lys Asn Ala Gly Val Pro Leu Val Ala Ile Asn Thr Thr Ala
 130 135 140
 Gly Thr Ala Ala Glu Met Thr Ser Asn Ala Val Ile Ile Asp Ala Ala
 145 150 155 160
 Arg Gln Val Lys Glu Val Ile Ile Asp Pro Asn Ile Ile Pro Asp Ile
 165 170 175
 Ala Val Asp Asp Ala Ser Val Met Leu Asp Ile Pro Ala Ser Val Thr
 180 185 190
 Ala Ala Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu Ala Tyr Val
 195 200 205
 Ser Val Gly Ala His Pro Leu Thr Asp Ala Asn Ala Leu Glu Ala Ile
 210 215 220
 Arg Leu Ile Asn Leu Trp Leu Pro Lys Ala Val Asp Asp Gly His Asn
 225 230 235 240
 Leu Glu Ala Arg Glu Gln Met Ala Phe Gly Gln Tyr Leu Ala Gly Met
 245 250 255
 Ala Phe Asn Ser Ala Gly Leu Gly Leu Val His Ala Leu Ala His Gln
 260 265 270
 Pro Gly Ala Thr His Asn Leu Pro His Gly Val Cys Asn Ala Ile Leu
 275 280 285
 Leu Pro Ile Ile Glu Asn Phe Asn Arg Pro Asn Ala Val Ala Arg Phe
 290 295 300
 Ala Arg Val Ala Gln Ala Met Gly Val Asp Thr Arg Gly Met Ser Asp
 305 310 315 320
 Glu Ala Ala Ser Met Ser Ala Ile Gln Ala Ile Arg Asp Leu Ser Ala
 325 330 335
 Arg Val Gly Ile Pro Ser Gly Phe Ser Gln Leu Gly Val Thr Lys Ala
 340 345 350
 Asp Ile Glu Gly Trp Leu Asp Lys Ala Leu Ala Asp Pro Cys Ala Pro
 355 360 365
 Cys Asn Pro Arg Thr Ala Ser Arg Asp Glu Val Arg Glu Leu Tyr Leu
 370 375 380
 Glu Ala Leu
 385

<210> 10016

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10016

Asn Gly Met Lys Asn His Leu Ser Cys Leu Lys Gly Asp Thr Ile Lys
 1 5 10 15
 Ala Ile Val Leu Val Cys Leu Ala Val Gly Val Val Gly Met Ser Tyr
 20 25 30
 Gly Ser Leu Ala Met Ala Tyr Gly Phe Pro Leu Trp Val Pro Phe Val
 35 40 45

Leu Ser Leu Thr Val Leu Ala Gly Ala Ser Glu Phe Met Phe Ile Gly
 50 55 60
 Ile Val Ala Ser Gly Gly Asn Pro Leu Ala Ala Ala Gly Leu
 65 70 75 80
 Leu Val Asn Ala Arg His Val Pro Phe Gly Val Thr Val Arg Asp Leu
 85 90 95
 Val Gly Lys Arg Gly Leu Ser Phe Leu Gly Cys His Ile Met Asn Asp
 100 105 110
 Glu Ser Val Val Phe Gly Leu Ser Gln Lys Thr Ala Glu Gln Arg Lys
 115 120 125
 Ala Ala Tyr Trp Leu Cys Gly Leu Gly Val Ala Ile Ile Trp Pro Leu
 130 135 140
 Gly Ala Val Leu Gly Ala Met Val Gly Lys Leu Leu Pro Asp Pro Glu
 145 150 155 160
 Thr Ile Gly Leu Asp Ala Val Phe Pro Ala Ile Leu Leu Ala Leu Val
 165 170 175
 Val Pro Ala Phe Lys Asn Arg Thr Thr Leu Ile Arg Ala Cys Ser Gly
 180 185 190
 Ala Val Leu Ser Leu Ala Ala Val Pro Phe Ala Pro Val Gly Leu Pro
 195 200 205
 Val Leu Leu Ser Leu Leu Gly Leu Ala Ala Arg Lys Lys
 210 215 220

<210> 10017

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 10017

Arg Glu Arg Arg Gly Ala Gln Met Arg Lys Arg Asp Thr Ile Val Arg
 1 5 10 15
 Tyr Thr Ala Pro Glu Arg Ile Asn His Trp Val Thr Ala Phe Cys Phe
 20 25 30
 Met Leu Ala Ala Ile Ser Gly Leu Gly Phe Phe Phe Pro Ser Phe Asn
 35 40 45
 Trp Leu Met Gln Ile Met Gly Thr Pro Gln Leu Ala Arg Ile Leu His
 50 55 60
 Pro Phe Val Gly Val Ile Met Phe Ala Ser Phe Ile Ile Met Phe Phe
 65 70 75 80
 Arg Tyr Trp His His Asn Leu Ile Asn Arg Asp Asp Ile Phe Trp Ala
 85 90 95
 Lys Asn Ile Arg Lys Ile Val Val Asn Glu Glu Val Gly Asp Thr Gly
 100 105 110
 Arg Tyr Asn Phe Gly Gln Lys Cys Val Phe Trp Ala Ala Ile Ile Phe
 115 120 125
 Leu Val Leu Leu Leu Val Ser Gly Val Ile Ile Trp Arg Pro Tyr Phe
 130 135 140
 Ala Pro Ala Phe Ser Ile Pro Val Ile Arg Phe Ala Leu Met Leu His
 145 150 155 160
 Ser Phe Ala Ala Val Ala Leu Ile Val Val Ile Met Val His Ile Tyr
 165 170 175
 Ala Ala Leu Trp Val Lys Gly Thr Ile Thr Ala Met Val Glu Gly Trp
 180 185 190
 Val Thr Lys Thr Trp Ala Lys Lys His His Pro Arg Trp Tyr Arg Glu
 195 200 205
 Val Arg Gln Lys Gln Glu Lys Ser Ser Glu
 210 215

<210> 10018

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 10018

Asp Arg Arg Arg Asn Asp Gly Ser Pro Leu Arg Lys Asp Pro Asn Met
 1 5 10 15
 Lys Trp Phe Asn Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr
 20 25 30
 Asp Arg Ile Leu Asp Phe Gly Lys Asn Ala Ala Val Pro Thr Gly Phe
 35 40 45
 Gly Trp Leu Gly Asn Asn Gly Gln Val Arg Ser Asp Met Gly Thr His
 50 55 60
 Leu Trp Ile Thr Ala Arg Met Leu His Val Tyr Ala Val Ala Ala Asn
 65 70 75 80
 Met Gly Arg Pro Gly Ala Tyr Ala Leu Val Glu His Gly Ile Asn Ala
 85 90 95
 Leu Asn Gly Pro Leu Arg Asp Lys Gln His Gly Gly Trp Tyr Ala Cys
 100 105 110
 Val Asn Asp Glu Gly Val Ile Asp Ala Ser Lys Gln Gly Tyr Gln His
 115 120 125
 Phe Phe Val Leu Leu Gly Ala Ala Ser Ala Val Thr Thr Gly His Pro
 130 135 140
 Gln Ala Arg Lys Leu Leu Asp Asp Ala Ile Glu Val Ile Glu Arg Tyr
 145 150 155 160
 Phe Trp Ser Glu Gln Glu Gln Met Cys Leu Glu Ser Trp Asp Glu Ala
 165 170 175
 Phe Ser Lys Thr Glu Asp Tyr Arg Gly Gly Asn Ala Asn Met His Ala
 180 185 190
 Val Glu Ala Phe Leu Ile Val Tyr Asp Val Thr His Asp Arg Lys Trp
 195 200 205
 Leu Asp Arg Ala Leu Arg Ile Ala Ser Val Ile Ile His Asp Val Ala
 210 215 220
 Arg Lys Gly Glu Tyr Arg Val Asn Glu His Phe Asp Thr Asn Trp Asn
 225 230 235 240
 Pro Ile Arg Asp Tyr Asn Ile Asp Asn Pro Ala His Arg Phe Arg Ala
 245 250 255
 Tyr Gly Gly Thr Pro Gly His Trp Ile Glu Trp Gly Arg Leu Met Leu
 260 265 270
 His Leu Arg Ala Ala Leu Glu Ala Arg Phe Glu Thr Pro Pro Glu Trp
 275 280 285
 Leu Leu Glu Asp Ala Lys Gly Leu Phe His Ala Thr Ile Arg Asp Ala
 290 295 300
 Trp Ala Pro Asp Gly Ala Asp Gly Phe Val Tyr Ser Val Gly Trp Asp
 305 310 315 320
 Gly Lys Pro Ile Val Arg Glu Arg Val Arg Trp Pro Ile Val Glu Ala
 325 330 335
 Met Gly Thr Ala Tyr Ala Leu Tyr Thr Val Thr Gly Glu Ala Gln Tyr
 340 345 350
 Glu Ala Trp Tyr Gln Lys Trp Trp Asp Tyr Cys Ile Lys Tyr Leu Met
 355 360 365
 Asp Tyr Glu Asn Gly Ser Trp Trp Gln Glu Leu Asp Thr Asn Asn Glu
 370 375 380
 Val Thr Thr Lys Val Trp Asp Gly Lys Gln Asp Ile Tyr His Leu Leu
 385 390 395 400
 His Cys Leu Val Ile Pro Arg Leu Pro Leu Ala Pro Gly Leu Ala Pro
 405 410 415
 Ala Val Ala Ala Gly Leu Leu Asp Ser Gln Ala Lys
 420 425

<210> 10019

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 10019

Met Ala Thr Gly Thr Leu Pro Asp Ala Gly Gln Ile Leu Asn Ser Leu
 1 5 10 15
 Ile Asn Ser Ile Leu Leu Val Asp Asp Glu Leu Ala Val His Tyr Ala
 20 25 30
 Asn Pro Ala Ala Gln Gln Leu Leu Ala Gln Ser Ala Arg Lys Leu Phe
 35 40 45
 Gly Thr Pro Leu Pro Glu Leu Leu Ser Tyr Phe Ser Leu Asn Ile Gly
 50 55 60
 Leu Met Gln Glu Ser Leu Gln Ala Gly Gln Gly Phe Thr Asp Asn Glu
 65 70 75 80
 Val Thr Leu Val Ile Asp Gly Arg Ser His Ile Leu Ser Leu Thr Ala
 85 90 95
 Gln Arg Leu Pro Asp Gly Met Ile Leu Leu Glu Met Ala Pro Met Asp
 100 105 110
 Asn Gln Arg Arg Leu Ser Gln Glu Gln Leu Gln His Ala Gln Gln Ile
 115 120 125
 Ala Ala Arg Asp Leu Val Arg Gly Leu Ala His Glu Ile Lys Asn Pro
 130 135 140
 Leu Gly Gly Leu Arg Gly Ala Ala Gln Leu Leu Thr Lys Ala Leu Pro
 145 150 155 160
 Asp Pro Ala Leu Ala Glu Tyr Thr Asn Val Ile Ile Glu Gln Ala Asp
 165 170 175
 Arg Leu Arg Asn Leu Val Asp Arg Leu Leu Gly Pro Gln Gln Pro Gly
 180 185 190
 Met His Val Ser Glu Ser Ile His Lys Val Ala Glu Arg Val Val Lys
 195 200 205
 Leu Val Ser Met Glu Leu Pro Asp Asn Val Thr Leu Val Arg Asp Tyr
 210 215 220
 Asp Pro Ser Leu Pro Glu Leu Ala His Asp Pro Asp Gln Ile Glu Gln
 225 230 235 240
 Val Leu Leu Asn Ile Val Arg Asn Ala Leu Gln Ala Leu Gly Pro Glu
 245 250 255
 Gly Gly Glu Ile Ile Leu Arg Thr Arg Thr Ala Phe Gln Leu Thr Leu
 260 265 270
 His Gly Val Arg Tyr Arg Leu Ala Ala Arg Ile Asp Val Glu Asp Asn
 275 280 285
 Gly Pro Gly Ile Pro Pro His Leu Gln Asp Thr Leu Phe Tyr Pro Met
 290 295 300
 Val Ser Gly Arg Glu Gly Gly Thr Gly Leu Gly Leu Ser Ile Ala Arg
 305 310 315 320
 Asn Leu Ile Asp Gln His Ser Gly Lys Ile Glu Phe Thr Ser Trp Pro
 325 330 335
 Gly His Thr Glu Phe Ser Val Phe Leu Pro Ile Lys Lys
 340 345 350

<210> 10020

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 10020

Thr Thr Ala Val Val Ala Ala Thr Glu Val Ala Ala His Pro Asn Asp
 1 5 10 15
 Gly Pro Gln Arg Asp Gln Asn Gly Pro Tyr Thr Asn Ala Thr Pro
 20 25 30
 Thr Glu Gly Val Ser Met Ser Val Pro Ser Ile Asp Trp Asp Leu Ala
 35 40 45
 Leu Ile Gln Lys Tyr Asn Tyr Ser Gly Pro Arg Tyr Thr Ser Tyr Pro

50	55	60
Thr Ala Leu Glu Phe Ser Asp Ala Phe Gly Glu Ala Asp Phe Gln His		
65	70	75
Ala Val Ala Arg Tyr Pro Glu Arg Pro Leu Ser Leu Tyr Val His Ile		
	85	90
Pro Phe Cys His Lys Leu Cys Tyr Phe Cys Gly Cys Asn Lys Ile Val		
	100	105
Thr Arg Gln Gln His Lys Ala Asp Gln Tyr Leu Asp Ala Leu Glu Gln		
	115	120
Glu Ile Leu His Arg Ala Pro Leu Phe Lys Gly Arg His Val Ser Gln		
	130	135
Leu His Trp Gly Gly Gly Thr Pro Thr Tyr Leu Asn Lys Ala Gln Ile		
145	150	155
Ser Arg Leu Met Ala Leu Leu Arg Asp Asn Phe Ser Phe Asn Asp Asp		
	165	170
Ala Glu Ile Ser Ile Glu Val Asp Pro Arg Glu Ile Glu Leu Asp Val		
	180	185
Leu Asp His Leu Arg Ala Glu Gly Phe Asn Arg Leu Ser Met Gly Val		
	195	200
Gln Asp Phe Asn Lys Glu Val Gln Arg Leu Val Asn Arg Glu Gln Asp		
	210	215
Glu Ala Phe Ile Phe Ala Leu Leu Asn His Ala Arg Glu Ile Gly Phe		
225	230	235
Thr Ser Thr Asn Ile Asp Leu Ile Tyr Gly Leu Pro Lys Gln Thr Pro		
	245	250
Glu Ser Phe Ala Tyr Thr Leu Lys Arg Val Ala Glu Leu Asn Pro Asp		
	260	265
Arg Leu Ser Val Phe Asn Tyr Ala His Leu Pro Thr Leu Phe Ala Ala		
	275	280
Gln Arg Lys Ile Lys Asp Ala Asp Leu Pro Ser Ala Gln Gln Lys Leu		
	290	295
Asp Ile Leu Gln Glu Thr Ile Ala Ser Leu Thr Glu Thr Gly Tyr Gln		
305	310	315
Phe Ile Gly Met Asp His Phe Ala Arg Pro Asp Asp Glu Leu Ala Ile		
	325	330
Ala Gln Arg Glu Gly Val Leu His Arg Asn Phe Gln Gly Tyr Thr Thr		
	340	345
Gln Gly Asp Thr Asp Leu Leu Gly Met Gly Val Ser Ala Ile Ser Met		
	355	360
Ile Gly Asp Cys Tyr Ala Gln Asn Gln Lys Glu Leu Lys Leu Tyr Tyr		
	370	375
Gln Gln Val Asp Glu Thr Gly Asn Ala Leu Trp Arg Gly Ile Ala Leu		
385	390	395
Thr Arg Asp Asp Cys Ile Arg Arg Asp Val Ile Lys Ala Leu Ile Cys		
	405	410
Asn Phe Arg Leu Glu Phe Arg Glu Val Glu Ser Gln Trp Asp Leu Gln		
	420	425
Phe Ser Asp Tyr Phe Ala Glu Asp Leu Lys Leu Leu Ala Pro Leu Ala		
	435	440
Lys Asp Gly Leu Val Asp Val Ser Glu Ser Ala Val Val Val Thr Pro		
	450	455
Lys Gly Arg Leu Leu Ile Arg Asn Ile Cys Met Cys Phe Asp Ala Tyr		
465	470	475
Leu Arg Gln Lys Ala Arg Leu Gln Gln Phe Ser Arg Val Ile		
	485	490
		495

<210> 10021

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 10021

Arg Phe Arg Gly Lys Lys Arg Val Arg Ser Gly Cys Trp Trp Arg Lys
 1 5 10 15
 Lys Pro Ile Arg Arg Trp Ala Lys Val Ser Thr Ala Thr Thr Pro Asp
 20 25 30
 Ala Tyr Ala Pro Gly Lys Thr Asn Gln Leu Asn Ala Val Val Gln Phe
 35 40 45
 Glu Leu Asn Arg Val Arg Arg His Ala Asn Ala Val Val Phe Phe Ser
 50 55 60
 Thr Gln Arg Asp Val Ser Val Asp Ser Phe Ile Gly Glu His Ala Ala
 65 70 75 80
 Ser Gly Gln Glu Leu Ala Val Cys Val Gln Arg Leu Gln Gly Phe Phe
 85 90 95
 Gln Arg Ala Gly Asn Leu Trp Asp Leu Phe Arg Phe Phe Trp Arg Gln
 100 105 110
 Val Val Gln Val Phe Val His Gly Phe Ala Arg Val Asp Leu Val Leu
 115 120 125
 Asp Thr Val Gln Thr Gly His Gln Gln Cys Cys Glu Ala Gln Val Trp
 130 135 140
 Val Ser Arg Arg Val Arg Glu Ala His Phe Asp Thr Thr Arg Phe Arg
 145 150 155 160
 Arg Arg Asn His Arg Asp Thr Asp Arg Ser Arg Thr Val Thr Gly Arg
 165 170 175
 Val Arg Gln His His Gly Cys Phe Val Ala Trp Asn Gln Thr Leu Val
 180 185 190
 Gly Val Arg Gly Arg Val Arg Gln Gly Val Asp Arg Phe Ser Val Phe
 195 200 205
 Asp Asn Thr Ala Asp Val Val Gln Arg Leu Leu Arg Gln Thr Arg Ile
 210 215 220
 Leu Val Thr Arg Glu Gln Val Gly Ala Val Leu Gly Gln Gly His Val
 225 230 235 240
 Ala Val His Ala Gly Thr Val Val Ala Lys His Trp Phe Trp His Glu
 245 250 255
 Gly Arg Gly Phe Thr Glu Thr Val Arg Asn Val Val Tyr Asn Val Phe
 260 265 270
 Val Asp Leu Asn Leu Ile Arg Phe Phe Gly His Gly Val Glu Ala Gly
 275 280 285
 Ser Asp Leu Val Leu Ala Ser Arg Cys His Phe Val Val Arg Phe
 290 295 300
 Asn Asn Gln Ala His Leu Phe His Asp Gln Thr His Gly Arg Thr Asp
 305 310 315 320
 Val Leu

<210> 10022

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10022

Arg Ile Asp Arg Arg Asn Arg Glu Val Thr Ala Phe His Ala Trp Thr
 1 5 10 15
 Val Thr Phe Val Thr Thr Phe Val Leu Gly Gly Arg Val Pro Cys Ala
 20 25 30
 Phe Asp Val Ile Asp Ser Asp Val Gly Ala Arg Asn Gly Ser Thr Lys
 35 40 45
 Thr Asp Val Val Glu Gln Glu Leu Trp Leu Trp Pro Glu Gln Asn
 50 55 60
 Gly Val Cys Asp Ala Gly Arg Ala Gln Val Leu Phe Ser Ala Phe Cys
 65 70 75 80
 Asp Gly Ala Trp Val Thr Val Ile Ala Leu Gln Arg Ala Arg Phe Gln

				85					90					95			
Asn	Ile	Ala	Ala	Asp	Asp	Gln	Arg	Arg	Phe	Phe	Val	Glu	Arg	Val	Asn		
			100					105					110				
Glu	Arg	Ser	Gly	Cys	Ile	Trp	His	Gln	Asn	His	Val	Gly	Phe	Val	Asn		
		115					120					125					
Ala	Phe	Pro	Ala	Ala	Asn	Gly	Gly	Ala	Val	Lys	His	Phe	Ala	Phe	Phe		
		130				135					140						
Lys	Glu	Phe	Gly	Val	His	Leu	Met	Ser	Arg	Asp	Arg	Asp	Val	Leu	Phe		
145					150					155					160		
Phe	Thr	Phe	Ser	Ile	Gly	Glu	Ala	Gln	Ile	Asn	Lys	Leu	His	Phe	Met		
			165					170						175			
Phe	Val	Gln	His	Arg	Gln	Asn	Val	Phe	Ser	Gly	His	Thr					
			180					185					190				

<210> 10023

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10023

Leu	Lys	Phe	Leu	Phe	Pro	Ala	Thr	Val	Thr	Ser	Pro	Arg	Arg	Lys	Glu		
1			5					10						15			
Ile	Asn	Met	Leu	Tyr	Ile	Phe	Asp	Leu	Gly	Asn	Val	Ile	Val	Asp	Ile		
		20						25				30					
Asp	Phe	Asn	Arg	Val	Leu	Gly	Ala	Trp	Ser	Asp	Phe	Ser	Arg	Val	Pro		
		35				40					45						
Leu	Ala	Thr	Leu	Lys	Gln	Asn	Phe	Ala	Met	Gly	Glu	Thr	Phe	His	Leu		
		50			55					60							
His	Glu	Arg	Gly	Glu	Ile	Ser	Asp	Glu	Ala	Phe	Ala	Glu	Arg	Phe	Cys		
65				70					75						80		
Gln	Glu	Met	Gly	Leu	Ser	Leu	Ser	Tyr	Glu	Gln	Phe	Ser	His	Gly	Trp		
			85					90						95			
Gln	Ala	Ile	Phe	Val	Ala	Ile	Arg	Pro	Glu	Val	Ile	Asp	Ile	Met	His		
		100					105					110					
Lys	Leu	Arg	Glu	Gln	Glu	His	Arg	Val	Val	Val	Leu	Ser	Asn	Thr	Asn		
		115				120						125					
Arg	Leu	His	Thr	Thr	Phe	Trp	Pro	Asp	Glu	Tyr	Pro	Glu	Ile	His	Ala		
		130			135						140						
Ala	Ala	Asp	Lys	Val	Tyr	Leu	Ser	Gln	Glu	Met	Gly	Met	Arg	Lys	Pro		
145				150					155						160		
Glu	Ala	Arg	Ile	Tyr	Gln	Ala	Val	Leu	Gln	Glu	Glu	Gly	Phe	Thr	Ala		
			165					170						175			
Ala	Asp	Ala	Val	Phe	Phe	Asp	Asp	Asn	Ala	Asp	Asn	Ile	Glu	Gly	Ala		
		180					185						190				
Asn	Gln	Leu	Gly	Ile	Thr	Ser	Ile	Leu	Val	Thr	Gly	Lys	Glu	Thr	Ile		
		195				200						205					
Pro	Asn	Tyr	Phe	Ala	Lys	Gln	Leu	Cys									
		210				215											

<210> 10024

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 10024

Ala	Leu	Ser	Pro	Thr	Gly	His	Glu	Tyr	Thr	Asn	Arg	Thr	Ile	Arg	Cys		
1			5					10					15				
Gly	Tyr	Ala	Gly	Phe	Ala	Gly	Glu	Arg	Trp	Pro	Arg	His	Ile	Leu	Ala		
		20					25					30					
Pro	Gly	Met	Ser	Gln	Leu	Ala	Val	Trp	Pro	Arg	Val	Thr	Arg	Glu	Ser		
		35					40					45					

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Thr Ala Met Tyr His Leu Arg Val Pro Gln Thr Glu Glu Glu Leu Asp
 50      55      60
Ala Tyr Tyr His Phe Arg Trp Glu Met Leu Arg Lys Pro Leu His Gln
65      70      75      80
Pro Lys Gly Ser Glu Arg Asp Ala Trp Asp Ala Met Ala His His Gln
      85      90      95
Met Val Val Asp Glu Glu Gly Asn Leu Val Ala Val Gly Arg Leu Tyr
      100      105      110
Ile Asn Ala Asp Asn Glu Ala Ser Ile Arg Phe Met Ala Val His Pro
      115      120      125
Ser Val Gln Asp Lys Gly Leu Gly Thr Leu Met Ala Met Thr Leu Glu
      130      135      140
Ser Val Ala Arg Gln Glu Gly Val Lys Arg Val Thr Cys Ser Ala Arg
      145      150      155      160
Glu Asp Ala Val Glu Phe Phe Ala Lys Leu Gly Phe Val Asn Gln Gly
      165      170      175
Glu Ile Thr Ala Pro Gln Thr Thr Pro Ile Arg His Phe Leu Met Ile
      180      185      190
Lys Pro Ile Ala Thr Leu Asp Asp Ile Leu His Arg Ala Asp Trp Cys
      195      200      205
Gly Gln Leu Gln Gln Ala Trp Tyr Gln His Ile Pro Leu Ser Glu Lys
      210      215      220
Met Gly Val Arg Ile Gln Gln Tyr Thr Gly Gln Lys Phe Ile Thr Thr
      225      230      235      240
Met Pro Glu Thr Gly Asn Gln Asn Pro His His Thr Leu Phe Ala Gly
      245      250      255
Ser Leu Phe Ser Leu Ala Thr Leu Thr Gly Trp Gly Leu Ile Trp Leu
      260      265      270
Met Leu Arg Glu Arg His Leu Gly Gly Thr Ile Ile Leu Ala Asp Ala
      275      280      285
His Ile Arg Tyr Ser Ala Pro Ile Ser Gly Lys Pro Ser Ala Val Ala
      290      295      300
Asp Leu Gly Ala Leu Gly Gly Asp Leu Asp Arg Leu Ala Arg Gly Arg
      305      310      315      320
Lys Ala Arg Val Gln Met Gln Val Glu Leu Phe Gly Asp Glu Thr Pro
      325      330      335
Gly Ala Val Phe Glu Gly Thr Tyr Ile Val Leu Pro Ala Lys Pro Tyr
      340      345      350
Gly Ala Tyr Glu Glu Gly Gly Asn Glu Glu Glu
      355      360

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<210> 10025

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 10025

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Met Ala Asp Ala Gly Gly Tyr Cys Ala Ala Asp Ser Gly Ser Gly Asn
1      5      10      15
His His Ser Asp Trp Cys Gly Thr Arg Val Arg Val Thr Gly Arg Ala
      20      25      30
Thr Gly Pro Pro Leu Arg Ile Lys Ile Met Asn Thr Thr Thr Cys Thr
      35      40      45
His Lys Asp Asn Pro Asn Phe Trp Val Phe Gly Leu Phe Phe Phe Leu
      50      55      60
Tyr Phe Phe Ile Met Ala Thr Cys Phe Pro Phe Leu Pro Ile Trp Leu
      65      70      75      80
Ser Asp Ile Ile Gly Leu Asn Lys Thr His Thr Gly Ile Val Phe Ser
      85      90      95
Cys Ile Ser Leu Ser Ala Ile Ala Phe Gln Pro Val Leu Gly Val Ile
      100      105      110

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Ser Asp Lys Leu Gly Leu Lys Lys His Leu Leu Trp Ile Ile Ser Val
 115 120 125
 Leu Leu Phe Leu Phe Ala Pro Phe Phe Leu Tyr Val Phe Ala Pro Leu
 130 135 140
 Leu Lys Thr Asn Ile Trp Leu Gly Ala Leu Ser Gly Gly Leu Tyr Ile
 145 150 155 160
 Gly Phe Val Phe Ser Ala Gly Ser Gly Ala Ile Glu Ala Tyr Ile Glu
 165 170 175
 Arg Val Ser Arg Asn Ser Phe Phe Glu Tyr Gly Lys Ala Arg Met Phe
 180 185 190
 Gly Cys Leu Gly Trp Gly Leu Cys Ala Ser Thr Gly Gly Ile Leu Phe
 195 200 205
 Gly Ile Asp Pro Ser Tyr Val Phe Trp Met Gly Ser Ala Ala Ala Leu
 210 215 220
 Leu Leu Met Leu Leu Leu Val Val Ala Lys Pro Lys Pro Asn Gln Thr
 225 230 235 240
 Ala Gln Val Met Asn Ala Leu Gly Ala Asn Gln Arg Gln Ile Thr Ala
 245 250 255
 Lys Thr Val Phe Asn Leu Phe Arg Gln Arg Arg Met Trp Met Phe Ile
 260 265 270
 Leu Tyr Val Ile Gly Val Ala Cys Val Tyr Asp Val Phe Asp Gln Gln
 275 280 285
 Phe Ala Thr Phe Phe Lys Thr Phe Phe Ala Thr Pro Gln Glu Gly Thr
 290 295 300
 Arg Ala Phe Gly Phe Ala Thr Thr Ala Gly Glu Ile Cys Asn Ala Ile
 305 310 315 320
 Ile Met Phe Cys Ser Pro Trp Ile Ile Asn Arg Ile Gly Ala Lys Asn
 325 330 335
 Thr Leu Leu Ile Ala Gly Val Ile Met Ala Thr Arg Ile Ile Gly Ser
 340 345 350
 Ser Phe Ala Thr Thr Ala Val Glu Val Ile Ala Leu Lys Met Leu His
 355 360 365
 Ala Leu Glu Val Pro Phe Leu Leu Val Gly Ala Phe Lys Tyr Ile Thr
 370 375 380
 Gly Val Phe Asp Thr Arg Leu Ser Ala Thr Ile Tyr Leu Ile Gly Phe
 385 390 395 400
 Gln Phe Ala Lys Gln Ser Ala Ala Ile Phe Leu Ser Ala Phe Ala Gly
 405 410 415
 Asn Met Tyr Asp Arg Val Gly Phe Gln Glu Thr Tyr Leu Ile Leu Gly
 420 425 430
 Cys Phe Val Leu Ala Ile Thr Val Val Ser Ala Phe Thr Leu Ser Gly
 435 440 445
 Arg Arg Glu Ile Ala Ala Thr Ala Gly Ala Ala Ala Leu Thr His Gln
 450 455 460
 Ser Arg
 465

<210> 10026

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 10026

Cys Pro Val Ile Arg Arg Arg Gly Cys Gly Val Ala Ala Gln Leu Ile
 1 5 10 15
 Leu Arg Lys Asp Asp Phe Phe Ala Ser Ala Ser Gln Ala Val Ala Val
 20 25 30
 Ala Asp Arg Tyr Pro Gln Asn Val Phe Ala Glu His Thr His Glu Phe
 35 40 45
 Cys Glu Leu Val Leu Val Trp Arg Gly Asn Gly Leu His Val Leu Asn
 50 55 60

Asp Arg Pro Tyr Arg Ile Thr Arg Gly Asp Leu Phe Tyr Ile Arg Ala
 65 70 75 80
 Glu Asp Lys His Ser Tyr Ala Ser Val Asn Asp Leu Val Leu Gln Asn
 85 90 95
 Val Ile Tyr Cys Pro Asp Arg Leu Lys Leu Asn Val Asp Trp Ala Gly
 100 105 110
 Asn Ile Pro Gly Phe His Asn Ala Arg Gly Glu Pro His Trp Arg Leu
 115 120 125
 Ser Ser Asn Gly Met Ala Gln Val Arg Gln Thr Ile Ser Gln Leu Glu
 130 135 140
 Gln Glu Ser Gln Lys Ser Asp Pro Ala Ala Asn Gln Met Ser Glu Leu
 145 150 155 160
 Leu Phe Ala Gln Leu Val Met Thr Leu Lys Arg His Arg Tyr Ala Thr
 165 170 175
 Asp Asn Pro Ser Ala Thr Met Gln Glu Ala Leu Leu Asp Lys Leu Ile
 180 185 190
 Thr Arg Leu Ala Gly Ser Leu Asn Lys Ser Phe Val Leu Asp Lys Phe
 195 200 205
 Cys Glu Gln Glu Gln Cys Ser Glu Arg Ala Leu Arg Gln Gln Phe Arg
 210 215 220
 Thr Gln Thr Gly Met Thr Val Asn His Tyr Leu Arg Gln Leu Arg Ile
 225 230 235 240
 Cys His Ala Gln Tyr Leu Leu Gln His Thr Glu Leu Met Val Ser Glu
 245 250 255
 Val Ala Met Arg Cys Gly Phe Glu Asp Ser Asn Tyr Phe Ser Val Val
 260 265 270
 Phe Asn Arg Glu Val Gly Met Thr Pro Val Gln Trp Arg His Arg Ser
 275 280 285
 Arg Lys Ala Ala
 290

<210> 10027

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10027

Gln Leu Cys Arg Pro Thr Ile Met Glu Arg Ile Met Ser Tyr Thr Leu
 1 5 10 15
 Pro Ser Leu Pro Tyr Ala Tyr Asp Ala Leu Glu Pro His Phe Asp Lys
 20 25 30
 Gln Thr Met Glu Ile His His Thr Lys His His Gln Thr Tyr Val Asn
 35 40 45
 Asn Ala Asn Ala Ala Leu Glu Ser Leu Pro Glu Phe Ala Asn Leu Pro
 50 55 60
 Val Glu Glu Leu Ile Thr Lys Leu Asp Gln Leu Pro Ala Asp Lys Lys
 65 70 75 80
 Thr Val Leu Arg Asn Asn Ala Gly Gly His Ala Asn His Ser Leu Phe
 85 90 95
 Trp Lys Gly Leu Lys Thr Gly Thr Thr Leu Gln Gly Asp Leu Lys Ala
 100 105 110
 Ala Ile Glu Arg Asp Phe Gly Ser Val Asp Asn Phe Lys Ala Glu Phe
 115 120 125
 Glu Lys Ala Ala Ala Thr Arg Phe Gly Ser Gly Trp Ala Trp Leu Val
 130 135 140
 Leu Lys Gly Asp Lys Leu Ala Val Val Ser Thr Ala Asn Gln Asp Ser
 145 150 155 160
 Pro Leu Met Gly Glu Ala Ile Ser Gly Ala Ser Gly Phe Pro Ile Leu
 165 170 175
 Gly Leu Asp Val Trp Glu His Ala Tyr Tyr Leu Lys Phe Gln Asn Arg
 180 185 190

Arg Pro Asp Tyr Ile Lys Ala Phe Trp Asp Val Val Asn Trp Asp Glu
 195 200 205
 Ala Ala Ala Arg Phe Ala Ala Lys Lys
 210 215

<210> 10028

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 10028

Leu Ala Phe Phe Val Ser Glu Gly Val Glu Met His Tyr Pro Val Asn
 1 5 10 15
 Val Phe Thr Gly Lys Val Arg Glu Tyr Glu Gly Ser Arg Pro Ser Ala
 20 25 30
 Ile Ala Lys Val Gln Val Asp Gly Glu Leu Thr Leu Thr Asp Leu Gly
 35 40 45
 Leu Ala Gly Asp Gln Gln Ala Glu Lys Lys Ile His Gly Gly Pro Asp
 50 55 60
 Arg Ala Leu Cys His Tyr Pro Arg Glu His Tyr Gln His Trp Lys Thr
 65 70 75 80
 Glu Phe Pro Glu Gln Ala Asp Leu Phe Val Ala Pro Ala Phe Gly Glu
 85 90 95
 Asn Leu Ser Thr Glu Gly Leu Thr Glu Lys Asn Val Phe Ile Gly Asp
 100 105 110
 Ile Tyr Arg Trp Gly Asp Ala Leu Ile Gln Val Thr Gln Pro Arg Ser
 115 120 125
 Pro Cys Phe Lys Leu Asn Tyr His Phe Gly Ile Gln Asp Met Ser Ala
 130 135 140
 Gln Leu Gln Asn Ala Gly Lys Thr Gly Trp Leu Tyr Arg Val Val Gln
 145 150 155 160
 Ala Gly Gln Val Ser Ala Asp Ala Pro Leu Glu Leu Ala Ser Arg Leu
 165 170 175
 Ser Glu Val Ser Val Tyr Glu Ala Cys Ala Ile Ala Trp His Met Pro
 180 185 190
 Phe Asp Asp Asp Gln Tyr His Arg Leu Leu Ser Ala Ala Gly Leu Ser
 195 200 205
 Thr Ser Trp Thr Arg Thr Met Gln Lys Arg Arg Ile Ser Gly Lys Ile
 210 215 220
 Glu Ser Ser Ser Arg Arg Leu Trp Gly Lys
 225 230 235

<210> 10029

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 10029

Leu Tyr Val Val Leu His Pro Leu Thr His Val Cys Ser Leu Asn Arg
 1 5 10 15
 Arg Leu Ser Leu Val Glu Ser Arg His Glu Arg Phe Trp Glu Gln Val
 20 25 30
 Met Arg Lys Val Thr Ala Ala Val Met Ala Ser Thr Leu Ala Phe Ser
 35 40 45
 Ala Phe Ser Gln Ala Ala Val Ala Ile Ile Ser Asp Asn Gly Ser Ser
 50 55 60
 Ala Glu Gly Ala Thr Gln His Ser Ser Gln Ser His Met Phe Asp Gly
 65 70 75 80
 Ile Ser Leu Thr Glu His Gln Arg Gln Gln Met Arg Asp Leu Met Gln
 85 90 95
 Arg Ala Arg His Asp Gln Pro Pro Val Asn Val Ser Glu Met Glu Thr

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<210> 10030
<211> 303
<212> PRT
<213> Enterobacter cloacae
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<210> 10031
<211> 94
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<212> PRT

<213> Enterobacter cloacae

<400> 10031

Lys	Thr	Val	Thr	Lys	Gln	His	Lys	Pro	Lys	Ser	Glu	Lys	Pro	Met	Leu
1				5					10					15	
Ser	Pro	Gln	Ala	Glu	Leu	Asp	Leu	Leu	Glu	Asn	Asp	Glu	Arg	Leu	Asp
			20					25					30		
Ala	Leu	Leu	Glu	Arg	Leu	Glu	Glu	Gly	Glu	Thr	Leu	Thr	Ala	Glu	Glu
		35				40					45				
Gln	Ser	Trp	Val	Asp	Ala	Lys	Leu	Asp	Arg	Ile	Asp	Glu	Leu	Met	Gln
	50					55					60				
Lys	Leu	Gly	Leu	Ser	Tyr	Asp	Asp	Glu	Asp	Asp	Glu	Glu	Glu	Asp	Glu
65					70					75					80
Lys	Gln	Glu	Asp	Met	Met	Arg	Leu	Leu	Lys	Gly	Gly	Asn			
				85					90						

<210> 10032

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10032

Thr	Phe	Gly	Glu	Ile	Lys	Met	Lys	Ala	Ser	Glu	Ile	Ala	Glu	Gly	Ile
1				5					10					15	
Thr	Met	Thr	Arg	Ile	Val	Cys	Val	Gly	Ile	Thr	Val	Leu	Asp	Arg	Ile
			20					25					30		
Trp	Tyr	Leu	Asp	Asp	Leu	Pro	Lys	Glu	Gly	Gly	Lys	Tyr	Val	Ala	Lys
		35					40				45				
Asp	Tyr	Thr	Glu	Val	Gly	Gly	Gly	Pro	Ala	Ala	Thr	Ala	Ala	Val	Ala
	50					55					60				
Ala	Ala	Lys	Leu	Gly	Ala	Glu	Val	Asp	Phe	Ile	Gly	Arg	Val	Gly	Asp
65					70					75					80
Asp	Asp	Thr	Gly	Arg	Arg	Leu	Leu	Ala	Glu	Leu	Glu	Ser	Leu	Gly	Val
				85					90					95	
Asn	Thr	Arg	Tyr	Thr	Arg	Val	Val	Lys	Gly	Ala	Arg	Ser	Ser	Gln	Ser
		100						105					110		
Ala	Val	Leu	Val	Asp	Gly	Ser	Gly	Glu	Arg	Val	Ile	Ala	Asn	Tyr	Ser
		115					120					125			
Ser	Pro	Asp	Leu	Pro	Ala	Val	Ala	Asp	Trp	Leu	Gln	Glu	Ile	Asp	Phe
		130				135					140				
Ser	Gln	Trp	Asp	Ile	Val	Leu	Ala	Asp	Val	Arg	Trp	His	Asp	Gly	Ala
145					150					155					160
Lys	Gln	Ala	Phe	Thr	Leu	Ala	Arg	Gln	Gln	Gly	Val	Pro	Thr	Leu	Leu
				165					170					175	
Asp	Ala	Asp	Val	Thr	Pro	Gln	Asp	Ile	Ala	Glu	Leu	Ile	Ala	Leu	Ser
			180					185					190		
Asp	His	Ala	Ala	Phe	Ser	Ala	Pro	Gly	Leu	Arg	Arg	Leu	Thr	Gln	Arg
		195					200					205			
Asp	Asp	Thr	Glu	Asp	Ala	Leu	Lys	Lys	Ala	Gln	Thr	Leu	Thr	Asn	Gly
		210				215					220				
His	Val	Tyr	Val	Thr	Gln	Gly	Arg	Asp	Gly	Cys	Phe	Trp	Leu	Glu	Asn
225					230					235					240
Gly	Ala	Leu	Cys	His	Gln	Pro	Gly	Phe	Glu	Val	Asn	Val	Val	Asp	Thr
				245					250					255	
Thr	Gly	Ala	Gly	Asp	Val	Phe	His	Gly	Ala	Leu	Ala	Val	Ser	Leu	Gly
			260					265					270		
Gln	Lys	Leu	Pro	Ala	Ala	Asp	Ala	Val	Arg	Phe	Ala	Ser	Ala	Val	Ala
		275					280					285			
Ala	Leu	Lys	Cys	Thr	Lys	Pro	Gly	Gly	Arg	Ala	Gly	Ile	Pro	Asp	Cys
		290				295					300				

Asp Gln Thr Arg Ser Phe Leu Ser Leu Phe Val
 305 310 315

<210> 10033
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 10033
 Lys Thr Thr Arg Ser Arg Pro Thr Met Ile Ala Leu Ile Gln Arg Val
 1 5 10 15
 Thr Arg Ala Ser Val Thr Val Ala Asp Glu Val Thr Gly Glu Ile Gly
 20 25 30
 Pro Gly Leu Leu Val Leu Leu Gly Val Glu Lys Asp Asp Asp Glu Gln
 35 40 45
 Lys Ala Asn Arg Leu Cys Glu Arg Val Leu Gly Tyr Arg Ile Phe Ser
 50 55 60
 Asp Ala Glu Gly Lys Met Asn Leu Asn Val Gln Gln Ala Gly Gly Ser
 65 70 75 80
 Val Leu Val Val Ser Gln Phe Thr Leu Ala Asp Thr Glu Arg Gly
 85 90 95
 Met Arg Pro Ser Phe Ser Lys Gly Ala Ala Pro Glu Arg Ala Glu Ala
 100 105 110
 Leu Tyr Glu Tyr Phe Val Glu Arg Cys Arg Gln Gln Asp Met Asn Thr
 115 120 125
 Gln Thr Gly Arg Phe Ala Ala Asp Met Gln Val Ser Leu Val Asn Asp
 130 135 140
 Gly Pro Val Thr Phe Trp Leu Gln Val
 145 150

<210> 10034
 <211> 354
 <212> PRT
 <213> Enterobacter cloacae

<400> 10034
 Gly Ala Gly Ala Arg Tyr Ala Arg Ala Ala Gly Gly Gly Thr Lys Leu
 1 5 10 15
 Lys Lys Ile Arg Lys Ile Met Ser Leu Lys Ala Ile Ala Lys Glu Leu
 20 25 30
 Gly Leu Ser Val Thr Thr Val Ser Arg Ala Leu Asn Gly Tyr Asp Asp
 35 40 45
 Val Ser Ala Glu Thr Arg Ala Arg Val Glu Ala Glu Ala Gln Arg Arg
 50 55 60
 Gly Tyr Arg Pro Asn Thr Phe Ala Arg Arg Leu Lys Met Gly Lys Ile
 65 70 75 80
 Asp Ala Val Gly Leu Val Phe Pro Val His Pro Val Pro Leu Asn Asn
 85 90 95
 Ser Val Phe Met Asp Met Val Gly Glu Ile Ser His Glu Leu Ala Arg
 100 105 110
 His Glu Ile Asp Leu Leu Leu Ile Ala Asp Asp Asp Leu Ala Asp Lys
 115 120 125
 His Ser Tyr Met Arg Met Val Gln Ser Arg Arg Val Asp Ala Leu Ile
 130 135 140
 Val Ala His Thr Leu Asp His Asp Pro Arg Leu Glu Gln Leu Gln Ala
 145 150 155 160
 Ala Gly Phe Pro Phe Leu Ala Leu Gly Arg Ser Gln Leu Pro Gln Pro
 165 170 175
 Tyr Ala Trp Phe Asp Phe Asp Asn Tyr Ala Gly Thr Tyr Gln Ala Thr
 180 185 190
 Arg Trp Leu Ile Glu Lys Gly His Gln Arg Ile Ala Leu Leu Gly Glu

	195		200		205	
Ser	Asn	Asn	Gln	Ala	Phe	Ile
	210					215
Ala	Leu	Arg	Glu	Ala	Gly	Leu
225					230	
Pro	Ser	Arg	Arg	Val	Gly	Tyr
				245		
Pro	Gln	Pro	Pro	Thr	Ala	Ile
				260		
Gly	Ala	Ala	Met	Ala	Leu	Ala
				275		
Ala	Val	Ser	Leu	Val	Val	Tyr
	290					295
Asp	Ile	Asp	Val	Ala	Ala	Val
305					310	
Lys	Gln	Ile	Ala	Asp	Met	Val
				325		
Asp	Thr	Leu	Gln	Val	Leu	Trp
				340		
Ala						

<210> 10035
 <211> 743
 <212> PRT
 <213> Enterobacter cloacae

<400> 10035	
Ser	His
1	
Cys	Ile
	20
Arg	Cys
	35
Asp	Val
	50
Pro	His
65	
Pro	Val
	85
Ala	Glu
	100
Arg	Gln
	115
Gln	Ala
	130
Leu	Arg
145	
Val	Arg
	165
Arg	Phe
	180
Ala	Phe
	195
Leu	Glu
	210
His	Glu
225	
Met	His
	245
Arg	Leu

<210> 10036
 <211> 365
 <212> PRT
 <213> Enterobacter cloacae

<400> 10036

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Ile Thr Thr Ile Trp Pro Asp Leu Asn Gln Phe Ser Trp Lys Gly Leu
1      5      10      15
Ile Tyr Tyr Leu Gln Tyr Ser Thr Val Glu Gln Phe Leu Pro Ala Ala
20      25      30
Asp Phe Asn Phe Ala Phe Leu Ser Ser Glu Val Val Met Ile Lys Lys
35      40      45
Ile Gly Val Leu Thr Ser Gly Gly Asp Ala Pro Gly Met Asn Ala Ala
50      55      60
Ile Arg Gly Val Val Arg Ala Ala Leu Thr Glu Gly Leu Glu Val Phe
65      70      75      80
Gly Ile Tyr Asp Gly Tyr Leu Gly Leu Tyr Glu Asp Arg Met Val Gln
85      90      95
Leu Asp Arg Tyr Ser Val Ser Asp Met Ile Asn Arg Gly Gly Thr Phe
100     105     110
Leu Gly Ser Ala Arg Phe Pro Glu Phe Arg Asp Glu His Ile Arg Glu
115     120     125
Val Ala Ile Glu Asn Met Lys Lys Arg Gly Leu Asp Ala Leu Val Val
130     135     140
Ile Gly Gly Asp Gly Ser Tyr Met Gly Ala Lys Arg Leu Thr Glu Met
145     150     155     160
Gly Phe Pro Cys Ile Gly Leu Pro Gly Thr Ile Asp Asn Asp Ile Lys
165     170     175
Gly Thr Asp Tyr Thr Ile Gly Tyr Phe Thr Ala Leu Gly Thr Val Val
180     185     190
Glu Ala Ile Asp Arg Leu Arg Asp Thr Ser Ser Ser His Gln Arg Ile
195     200     205
Ser Ile Val Glu Val Met Gly Arg Tyr Cys Gly Asp Leu Thr Leu Ala
210     215     220
Ala Ala Ile Ala Gly Gly Cys Glu Phe Val Val Val Pro Glu Val Glu
225     230     235     240
Phe Ser Arg Glu Asp Leu Val Ala Glu Ile Lys Ala Gly Ile Ala Lys
245     250     255
Gly Lys Lys His Ala Ile Val Ala Ile Thr Glu His Ile Cys Asp Val
260     265     270
Asp Glu Leu Ala Lys Tyr Ile Glu Thr Glu Thr Lys Arg Glu Thr Arg
275     280     285
Ala Thr Val Leu Gly His Ile Gln Arg Gly Gly Ser Pro Gly Pro Tyr
290     295     300
Asp Arg Ile Leu Ala Ser Arg Met Gly Ala Tyr Ala Ile Glu Leu Leu
305     310     315     320
Leu Gln Gly His Gly Arg Cys Val Gly Ile Gln Asn Glu Lys Leu
325     330     335
Val His His Asp Ile Ile Asp Ala Ile Glu Asn Met Lys Arg Pro Phe
340     345     350
Lys Gly Asp Trp Leu Asp Cys Ala Lys Lys Leu Tyr
355     360     365

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<210> 10037
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 10037

Ser Ser Val Ser Phe Leu Ala Arg Cys Ile His Gln Asn Thr Thr Gln

1				5				10				15				
Glu	Ser	Trp	Ala	Met	Asn	Lys	Trp	Gly	Val	Gly	Leu	Thr	Leu	Leu	Leu	Leu
			20					25					30			
Ala	Ser	Thr	Ser	Val	Leu	Ala	Lys	Asp	Ile	Gln	Leu	Leu	Asn	Val	Ser	
		35					40					45				
Tyr	Asp	Pro	Thr	Arg	Glu	Leu	Tyr	Asp	Gln	Tyr	Asn	Lys	Ala	Phe	Ala	
	50					55					60					
Ala	His	Trp	Lys	Gln	Glu	Thr	Gly	Asp	Asn	Val	Val	Val	Arg	Gln	Ser	
65				70						75					80	
His	Gly	Gly	Ser	Gly	Lys	Gln	Ala	Thr	Ser	Val	Ile	Asn	Gly	Ile	Glu	
			85					90						95		
Ala	Asp	Val	Val	Thr	Leu	Ala	Leu	Ala	Tyr	Asp	Val	Asp	Ala	Ile	Ala	
			100					105					110			
Glu	Arg	Gly	Arg	Ile	Asp	Lys	Asn	Trp	Ile	Lys	Arg	Leu	Pro	Asp	Asn	
		115					120					125				
Ser	Ala	Pro	Tyr	Thr	Ser	Thr	Ile	Val	Phe	Leu	Val	Arg	Lys	Gly	Asn	
	130					135					140					
Pro	Lys	Gln	Ile	Lys	Asp	Trp	Asn	Asp	Leu	Ile	Lys	Pro	Gly	Val	Ser	
145				150					155						160	
Val	Ile	Thr	Pro	Asn	Pro	Lys	Ser	Ser	Gly	Gly	Ala	Arg	Trp	Asn	Tyr	
			165					170						175		
Leu	Ala	Ala	Trp	Gly	Tyr	Ala	Leu	His	His	Asn	Asn	Gly	Asp	Gln	Ala	
			180				185						190			
Lys	Ala	Gln	Asp	Phe	Val	Lys	Ala	Leu	Phe	Lys	Asn	Val	Glu	Val	Leu	
		195					200					205				
Asp	Ser	Gly	Ala	Arg	Gly	Ala	Thr	Asn	Thr	Phe	Val	Glu	Arg	Gly	Ile	
	210					215					220					
Gly	Asp	Val	Leu	Ile	Ala	Trp	Glu	Asn	Glu	Ala	Leu	Leu	Ala	Thr	Asn	
225				230						235					240	
Glu	Leu	Gly	Lys	Asp	Lys	Phe	Glu	Ile	Val	Thr	Pro	Ser	Glu	Ser	Ile	
			245						250					255		
Leu	Ala	Glu	Pro	Thr	Val	Ser	Val	Val	Asp	Lys	Val	Val	Asp	Lys	Lys	
		260					265						270			
Gly	Thr	Lys	Ala	Val	Ala	Glu	Ala	Tyr	Leu	Lys	Tyr	Leu	Tyr	Ser	Pro	
		275					280						285			
Glu	Gly	Gln	Glu	Ile	Ala	Ala	Lys	Asn	Phe	Tyr	Arg	Pro	Arg	Asp	Glu	
	290					295					300					
Ala	Val	Ala	Lys	Lys	Tyr	Glu	Asn	Ala	Phe	Pro	Lys	Leu	Lys	Leu	Phe	
305				310						315					320	
Thr	Ile	Asp	Asp	Val	Phe	Gly	Gly	Trp	Thr	Lys	Ala	Gln	Lys	Glu	His	
			325					330						335		
Phe	Ser	Asn	Gly	Gly	Thr	Phe	Asp	Gln	Ile	Ser	Lys	Arg				
		340						345					350			

<210> 10038

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 10038

Glu	Ile	Arg	Arg	Val	Phe	Tyr	Leu	Val	Ile	Ile	Leu	Arg	Tyr	Ser	Phe	
1				5				10					15			
Ala	Ser	Ile	Glu	Asn	Arg	Glu	Arg	Val	Val	Lys	Lys	Ile	Ile	Leu	Leu	
			20					25					30			
Ile	Leu	Ile	Val	Ile	Ala	Leu	Ala	Gly	Gly	Val	Tyr	Trp	Met	Lys		
		35					40				45					
Ala	Gly	Asn	Pro	Asn	Ala	Leu	Arg	His	Ile	Val	Leu	Asp	Gln	Cys	Val	
	50					55					60					
Pro	Asn	Gln	Leu	His	Asn	Arg	Asn	Pro	Ala	Pro	Cys	Ala	Gln	Val	Lys	
65				70						75					80	
Pro	Asp	Ala	Gly	Tyr	Val	Val	Phe	Lys	Asp	Arg	Asn	Gly	Pro	Leu	Gln	

			85					90				95			
Tyr	Leu	Leu	Met	Pro	Thr	Tyr	Arg	Ile	Asn	Gly	Thr	Glu	Ser	Pro	Leu
			100					105					110		
Leu	Thr	Glu	Pro	Gln	Thr	Pro	Asn	Phe	Phe	Trp	Leu	Ala	Trp	Gln	Ser
		115					120					125			
Arg	His	Phe	Met	Ser	Met	Lys	Arg	Gly	Ala	Asp	Val	Pro	Asp	Ser	Ala
	130					135					140				
Val	Ser	Leu	Thr	Ile	Asn	Ser	Pro	Thr	Gly	Arg	Thr	Gln	Asn	His	Phe
145				150						155					160
His	Ile	His	Ile	Ser	Cys	Leu	Arg	Pro	Asp	Val	Arg	Glu	Lys	Leu	Asn
			165						170					175	
Ala	Ser	Gln	Gly	Gln	Ile	Ser	Thr	Gln	Trp	Leu	Pro	Leu	Pro	Gly	Gly
		180						185					190		
Leu	Glu	Gly	His	Glu	Tyr	Leu	Ala	Arg	Arg	Val	Thr	Glu	Asn	Glu	Leu
		195					200					205			
Val	Gln	Arg	Ser	Pro	Phe	Met	Met	Leu	Ala	Glu	Glu	Leu	Pro	Glu	Ala
	210					215					220				
Arg	Asp	His	Met	Gly	Arg	Phe	Ala	Leu	Ala	Met	Ala	Gln	Gln	Ser	Asp
225				230						235					240
Gly	Ser	Phe	Val	Leu	Leu	Ala	Thr	Glu	Arg	Asn	Leu	Leu	Thr	Phe	Asn
			245						250					255	
Arg	Ala	Ser	Ala	Glu	Glu	Leu	Gln	Asp	His	Gln	Cys	Asp	Ile	Leu	Lys
			260					265					270		

<210> 10039

<211> 611

<212> PRT

<213> Enterobacter cloacae

<400> 10039

Gly	Lys	Val	Val	Ile	Glu	Lys	Leu	Arg	Asn	Ile	Ala	Ile	Ile	Ala	His
1				5					10					15	
Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Val	Asp	Lys	Leu	Leu	Gln	Gln	Ser
		20						25					30		
Gly	Thr	Phe	Asp	Ala	Arg	Ala	Glu	Thr	Gln	Glu	Arg	Val	Met	Asp	Ser
	35					40					45				
Asn	Asp	Leu	Glu	Lys	Glu	Arg	Gly	Ile	Thr	Ile	Leu	Ala	Lys	Asn	Thr
	50				55					60					
Ala	Ile	Lys	Trp	Asn	Asp	Tyr	Arg	Ile	Asn	Ile	Val	Asp	Thr	Pro	Gly
65				70					75						80
His	Ala	Asp	Phe	Gly	Gly	Glu	Val	Glu	Arg	Val	Met	Ser	Met	Val	Asp
			85						90					95	
Ser	Val	Leu	Leu	Val	Val	Asp	Ala	Phe	Asp	Gly	Pro	Met	Pro	Gln	Thr
		100						105					110		
Arg	Phe	Val	Thr	Lys	Lys	Ala	Phe	Ala	His	Gly	Leu	Lys	Pro	Ile	Val
		115					120					125			
Val	Ile	Asn	Lys	Val	Asp	Arg	Pro	Gly	Ala	Arg	Pro	Asp	Trp	Val	Val
	130					135					140				
Asp	Gln	Val	Phe	Asp	Leu	Phe	Val	Asn	Leu	Asp	Ala	Thr	Asp	Glu	Gln
145				150					155						160
Leu	Asp	Phe	Pro	Ile	Val	Tyr	Ala	Ser	Ala	Leu	Asn	Gly	Ile	Ala	Gly
			165						170					175	
Leu	Asp	His	Glu	Asp	Met	Ala	Glu	Asp	Met	Thr	Pro	Leu	Tyr	Gln	Thr
		180						185					190		
Ile	Val	Asp	Arg	Val	Pro	Ala	Pro	Asn	Val	Asp	Leu	Glu	Gly	Thr	Leu
		195					200					205			
Gln	Met	Gln	Ile	Ser	Gln	Leu	Asp	Tyr	Asn	Asn	Tyr	Val	Gly	Val	Ile
	210					215					220				
Gly	Ile	Gly	Arg	Ile	Lys	Arg	Gly	Lys	Val	Lys	Pro	Asn	Gln	Gln	Val

225 230 235 240
 Thr Ile Ile Asp Ser Glu Gly Lys Thr Arg Asn Gly Lys Val Gly Lys
 245 250 255
 Val Leu Thr His Leu Gly Leu Glu Arg Ile Glu Ser Asp Ile Ala Glu
 260 265 270
 Ala Gly Asp Ile Ile Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser
 275 280 285
 Asp Thr Ile Cys Asp Pro Gln Asn Val Glu Ala Leu Pro Ala Leu Ser
 290 295 300
 Val Asp Glu Pro Thr Val Ser Met Phe Phe Asn Val Asn Thr Ser Pro
 305 310 315 320
 Phe Cys Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile Leu Asp
 325 330 335
 Arg Leu Asn Lys Glu Leu Val His Asn Val Ala Leu Arg Val Glu Glu
 340 345 350
 Thr Glu Asp Ala Asp Ala Phe Arg Val Ser Gly Arg Gly Glu Leu His
 355 360 365
 Leu Ser Val Leu Ile Glu Asn Met Arg Arg Glu Gly Phe Glu Met Ala
 370 375 380
 Val Ser Arg Pro Lys Val Ile Phe Arg Glu Ile Asp Gly Arg Lys Gln
 385 390 395 400
 Glu Pro Phe Glu Asn Val Thr Leu Asp Val Glu Glu Gln His Gln Gly
 405 410 415
 Ser Val Met Gln Ala Leu Gly Glu Arg Lys Gly Asp Leu Lys Asn Met
 420 425 430
 Asn Pro Asp Gly Lys Gly Arg Val Arg Leu Asp Tyr Val Ile Pro Ser
 435 440 445
 Arg Gly Leu Ile Gly Phe Arg Ser Glu Phe Met Thr Met Thr Ser Gly
 450 455 460
 Thr Gly Leu Leu Tyr Ser Thr Phe Ser His Tyr Asp Asp Val Arg Pro
 465 470 475 480
 Gly Glu Val Gly Gln Arg Asn Asn Gly Val Leu Ile Ser Asn Gly Gln
 485 490 495
 Gly Lys Ala Val Ala Phe Ala Leu Phe Gly Leu Gln Asp Arg Gly Lys
 500 505 510
 Leu Phe Leu Gly His Gly Ala Glu Val Tyr Glu Gly Gln Ile Ile Gly
 515 520 525
 Ile His Ser Arg Ser Asn Asp Leu Thr Val Asn Cys Leu Thr Gly Lys
 530 535 540
 Lys Leu Thr Asn Met Arg Ala Ser Gly Thr Asp Glu Ala Thr Val Leu
 545 550 555 560
 Val Pro Pro Ile Lys Met Thr Leu Glu Gln Ala Leu Glu Phe Ile Asp
 565 570 575
 Asp Asp Glu Leu Val Glu Val Thr Pro Gln Ser Ile Arg Ile Arg Lys
 580 585 590
 Arg His Leu Thr Glu Asn Asp Arg Lys Arg Ala Met Arg Gly Ala Lys
 595 600 605
 Glu Asp
 610

<210> 10040

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10040

Asn Ala Gln Ser Pro Ala Gly Ala Arg Val Tyr Pro Thr Val Ile Lys
 1 5 10 15
 Pro Ala Leu Phe Cys His Phe Leu Tyr Lys Met Arg Gly Val Met Val
 20 25 30
 Phe Arg Gly Gln Pro Met Ser Leu Thr Glu Leu Thr Gly Asn Pro Arg

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<210> 10041
<211> 317
<212> PRT
<213> Enterobacter cloacae
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Ser	Val	Arg	Tyr	His	Leu	His	Ser	Gly	Asp	Arg	Lys	Arg	Asp	Asp	Thr
1				5					10					15	
Glu	Leu	Leu	Cys	Glu	Ala	Val	Met	Leu	Lys	Thr	Val	His	Gln	Lys	Ala
			20					25					30		
Asn	His	His	Thr	Arg	Pro	Leu	Arg	Ala	Trp	Leu	Lys	Leu	Leu	Trp	His
			35				40					45			
Arg	Ile	Asp	Glu	Asp	Asn	Met	Thr	Thr	Leu	Ala	Gly	Asn	Leu	Ala	Tyr
	50					55					60				
Val	Ser	Leu	Leu	Ser	Leu	Val	Pro	Leu	Val	Ala	Val	Ile	Phe	Ala	Leu
65					70					75					80
Phe	Ser	Ala	Phe	Pro	Met	Phe	Ala	Asp	Val	Ser	Met	Gln	Leu	Arg	His
				85					90					95	
Phe	Val	Phe	Ala	Asn	Phe	Ile	Pro	Ala	Thr	Gly	Asp	Val	Ile	Gln	Asn
			100					105					110		
Tyr	Ile	Glu	Gln	Phe	Val	Ala	Asn	Ser	Ser	Lys	Met	Thr	Ala	Val	Gly
		115					120					125			
Ala	Cys	Gly	Leu	Ile	Val	Thr	Ala	Leu	Leu	Leu	Met	Tyr	Ser	Ile	Asp
	130					135					140				
Ser	Ala	Leu	Asn	Thr	Ile	Trp	Arg	Ser	Lys	Lys	Val	Arg	Pro	Lys	Val
145					150					155					160
Tyr	Ser	Phe	Ala	Val	Tyr	Trp	Met	Ile	Leu	Thr	Leu	Gly	Pro	Leu	Leu

				165					170				175				
Ala	Gly	Ala	Ser	Leu	Ala	Ile	Ser	Ser	Tyr	Leu	Leu	Ser	Leu	Arg	Trp		
			180					185					190				
Ala	Thr	Asp	Leu	Asn	Ser	Val	Ile	Asp	Asn	Val	Leu	Arg	Ile	Phe	Pro		
		195					200					205					
Leu	Ile	Leu	Ser	Trp	Leu	Ser	Phe	Trp	Leu	Leu	Tyr	Ser	Val	Val	Pro		
	210					215					220						
Thr	Thr	Arg	Val	Pro	Asn	Arg	Asp	Ala	Val	Val	Gly	Ala	Leu	Val	Ala		
225					230					235					240		
Ala	Leu	Leu	Phe	Glu	Leu	Gly	Lys	Lys	Gly	Phe	Ala	Leu	Tyr	Ile	Thr		
			245						250					255			
Met	Phe	Pro	Ser	Tyr	Gln	Leu	Ile	Tyr	Gly	Val	Leu	Ala	Val	Ile	Pro		
			260					265					270				
Ile	Leu	Phe	Val	Trp	Val	Tyr	Trp	Thr	Trp	Cys	Ile	Val	Leu	Leu	Gly		
		275				280					285						
Ala	Glu	Ile	Thr	Val	Thr	Leu	Gly	Val	Tyr	Arg	Glu	Leu	Lys	Lys	Ala		
	290					295				300							
Ala	Glu	Ala	Glu	Lys	Gln	Gln	Glu	Ala	Asp	Gln	Pro						
305					310					315							

<210> 10042

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10042

Ser	Ile	Leu	Cys	Val	Arg	Pro	Ala	Val	Cys	Val	Ala	Ile	Ala	Gly	Ser		
1			5					10					15				
Leu	Pro	Trp	Leu	Phe	Arg	Asn	Thr	Val	Val	Ser	Lys	Gln	Asn	Arg	Val		
		20					25					30					
Ala	His	Ala	Ser	Pro	Leu	Pro	Ala	Gly	Ile	Val	Glu	Leu	Ser	Val	His		
		35				40					45						
Arg	Pro	Pro	His	Ile	Ser	His	Ala	Thr	Pro	Asp	Phe	Leu	Ala	Glu	Glu		
	50				55					60							
Val	Pro	Val	Ala	Leu	Ile	Tyr	Asn	Gly	Ile	Ser	His	Val	Val	Met	Met		
65				70					75					80			
Ala	Ser	Pro	Lys	Asp	Leu	Glu	Leu	Phe	Ala	Ile	Gly	Phe	Ser	Leu	Ser		
			85					90					95				
Glu	Gly	Ile	Ile	Ala	His	Pro	Gln	Glu	Ile	Tyr	Gly	Met	Asp	Val	Val		
		100					105					110					
His	Ala	Cys	Asn	Gly	Leu	Glu	Val	Gln	Ile	Glu	Leu	Ser	Ser	Arg	Arg		
		115				120					125						
Phe	Met	Gly	Leu	Lys	Glu	Arg	Arg	Arg	Ala	Leu	Ala	Gly	Arg	Thr	Gly		
	130				135					140							
Cys	Gly	Val	Cys	Gly	Val	Glu	Gln	Leu	Asn	Asp	Ile	Gly	Lys	Pro	Ile		
145				150					155					160			
Ile	Pro	Leu	Pro	Phe	Thr	Gln	Thr	Phe	Asn	Leu	Ala	His	Leu	Asp	Arg		
			165					170					175				
Ala	Leu	Glu	His	Leu	Asn	Asp	Val	Gln	Pro	Ile	Gly	Gln	Leu	Ser	Gly		
		180					185					190					
Cys	Thr	His	Ala	Ala	Ala	Trp	Ile	Leu	Pro	Ser	Gly	Asn	Ile	Ala	Gly		
		195				200					205						
Gly	His	Glu	Asp	Val	Gly	Arg	His	Val	Ala	Leu	Asp	Lys	Leu	Leu	Gly		
	210				215					220							
Arg	Arg	Ala	Arg	Glu	Ser	Asn	Val	Trp	Gln	Gln	Gly	Ala	Ala	Leu	Val		
225				230					235					240			
Ser	Ser	Arg	Ala	Ser	Tyr	Glu	Met	Val	Gln	Lys	Ser	Ala	Met	Cys	Gly		
			245					250					255				
Val	Glu	Ile	Leu	Phe	Ala	Val	Ser	Ala	Ala	Thr	Thr	Leu	Ala	Val	Glu		
		260				265					270						
Val	Ala	Glu	Arg	Cys	Asn	Leu	Thr	Leu	Val	Gly	Phe	Cys	Lys	Pro	Gly		

275	280	285
Arg Ala Thr Ile Tyr Thr His	Pro Gln Arg Leu Ile	Val Asp Gln
290	295	300

<210> 10043
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 10043

Gly	Leu	Ile	Phe	Ile	Ser	Ser	Arg	His	Gly	Ala	Leu	Ser	Lys	Gln	Leu
1			5						10					15	
Asn	Glu	Arg	Val	Tyr	Leu	Met	Lys	Ser	Ile	Lys	Thr	Phe	Val	Ala	Val
			20					25					30		
Ile	Ala	Leu	Ala	Thr	Ser	Phe	Gly	Ser	Phe	Ala	Ala	Gln	Thr	Val	Thr
		35					40					45			
Ala	Ser	Ala	Ser	Thr	Leu	Asp	Gly	Ala	Glu	Ala	Lys	Ile	Ala	Ala	Gln
		50				55					60				
Ala	Gln	Glu	Ala	Gly	Ala	Ser	Ser	Tyr	Lys	Ile	Thr	Gln	Ala	Phe	Thr
65				70						75					80
Gly	Asn	Arg	Val	His	Met	Thr	Ala	Glu	Leu	Asn	Lys				
				85					90						

<210> 10044
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<400> 10044

Pro	Tyr	Arg	Thr	Tyr	Phe	His	Tyr	Asn	Glu	Arg	Ile	Arg	Asn	Val	Leu
1				5					10					15	
Gln	Asp	Glu	Arg	Phe	Val	Arg	Tyr	Arg	Glu	Lys	Glu	Ala	Val	Ile	Met
			20					25					30		
Thr	Gln	Pro	Ile	Ser	Val	Ile	Ala	Lys	Ser	Leu	Val	Arg	Glu	Arg	Leu
		35					40					45			
Arg	Thr	Gly	Leu	Ser	Leu	Ala	Glu	Ile	Ala	Arg	Arg	Ala	Gly	Ile	Ala
		50				55				60					
Lys	Ser	Thr	Leu	Ser	Gln	Leu	Glu	Ser	Gly	Asn	Gly	Asn	Pro	Ser	Leu
65				70						75					80
Glu	Thr	Leu	Trp	Ser	Leu	Cys	Val	Ala	Leu	Asp	Ile	Pro	Phe	Ala	Arg
			85						90					95	
Leu	Leu	Glu	Pro	Gln	Gln	Pro	Val	Thr	Gln	Val	Ile	Arg	Arg	Gly	Glu
			100					105					110		
Gly	Thr	Lys	Val	Val	Ala	Gly	Gln	Ala	Asn	Tyr	Glu	Ala	Ile	Leu	Leu
		115					120					125			
Ala	Ala	Cys	Pro	Pro	Gly	Ala	Arg	Arg	Asp	Ile	Tyr	Leu	Leu	Leu	Thr
		130				135					140				
Gln	Pro	Gly	Ala	Asp	Arg	Ile	Ser	Gln	Pro	His	Pro	Pro	Gly	Ser	Val
145				150						155					160
Glu	His	Ile	Ile	Val	Thr	Gln	Gly	Arg	Ala	Met	Val	Gly	Leu	Ile	Asp
			165					170					175		
Ala	Ala	Glu	Glu	Leu	Gly	Pro	Gly	Asp	Tyr	Ile	Cys	Tyr	Pro	Ala	Asp
			180					185					190		
Gln	Pro	His	Ile	Phe	Lys	Ala	Leu	Glu	Pro	Asp	Thr	His	Ala	Leu	Leu
		195					200						205		
Val	Ala	Glu	Gln	Asn											
															210

<210> 10045
 <211> 288
 <212> PRT

<213> Enterobacter cloacae

<400> 10045

Glu Leu Phe Ser Leu Val Gly Ala Val Met Thr Val Leu His Ser Val
 1 5 10 15
 Asp Phe Phe Pro Thr Gly Ala Ser Pro Val Ala Ile Glu Pro Arg Leu
 20 25 30
 Pro Gln Ala Ala Phe Pro Glu His His His Asp Phe His Glu Ile Val
 35 40 45
 Ile Val Glu His Gly Thr Gly Ile His Val Phe Asn Gly Gln Pro Tyr
 50 55 60
 Thr Ile Ser Gly Gly Thr Val Cys Phe Val Arg Asp His Asp Arg His
 65 70 75 80
 Leu Tyr Glu His Thr Asp Asn Leu Cys Leu Thr Asn Val Leu Tyr Arg
 85 90 95
 Ser Pro Asp Ala Phe Gln Phe Leu Ser Gly Leu Asn Gln Leu Leu Pro
 100 105 110
 Gln Glu Lys Asp Gly His Tyr Pro Ser His Trp Arg Val Asn Gln Ser
 115 120 125
 Thr Leu Gln Gln Val Arg Gln Leu Val Ser Gln Met Glu Gln Ser Glu
 130 135 140
 Asp Gly Gln Glu Thr His Ala Ile Ala Thr Arg Glu Leu Leu Phe Met
 145 150 155 160
 Gln Leu Leu Val Leu Leu Arg Arg Ser Ser Leu Val Glu Gly Leu Glu
 165 170 175
 Asn Asn Asp Ala Arg Leu Asn Gln Leu Met Ala Trp Leu Glu Asp His
 180 185 190
 Phe Ala Glu Asp Val Cys Trp Glu Thr Leu Ala Asp Asp Phe Ser Leu
 195 200 205
 Ser Leu Arg Thr Leu His Arg Gln Leu Lys Gln His Thr Gly Leu Thr
 210 215 220
 Pro Gln Arg Tyr Leu Asn Arg Leu Arg Leu Ile Lys Ala Arg His Leu
 225 230 235 240
 Leu Arg His Thr Asp Glu Ser Val Thr Asp Ile Ala Tyr Arg Cys Gly
 245 250 255
 Phe Gly Asp Ser Asn His Phe Ser Thr Leu Phe Arg Arg Glu Phe Ser
 260 265 270
 Trp Ser Pro Arg Asp Ile Arg Gln Gly Lys Asp Ala Leu Leu Gln
 275 280 285

<210> 10046

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 10046

Lys Ile Leu Gln Glu Thr Gly Met Ser Leu Trp Leu Thr His Pro Leu
 1 5 10 15
 Leu Leu Pro Ser Leu Ile Val Gly Val Thr Ile Val Leu Trp Ala Thr
 20 25 30
 Ser Leu Leu Pro Glu Phe Ile Thr Ala Leu Leu Phe Phe Thr Ala Ala
 35 40 45
 Met Ala Ala Arg Ile Ala Pro Pro Glu Val Ile Phe Gly Gly Phe Ala
 50 55 60
 Ser Ser Ala Phe Trp Leu Val Phe Ser Gly Phe Val Leu Gly Val Ala
 65 70 75 80
 Ile Arg Lys Thr Gly Leu Ala Asp Arg Ala Ala Arg Ala Leu Ser Ala
 85 90 95
 Lys Leu Thr Asp Ser Trp Val Leu Met Val Ala Ser Val Val Leu Leu
 100 105 110
 Ser Tyr Ala Leu Ala Phe Val Met Pro Ser Asn Met Gly Arg Ile Ala

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<210> 10047
<211> 167
<212> PRT
<213> Enterobacter cloacae
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<400> 10047																
Leu	Lys	Arg	Tyr	Leu	Val	Gly	Leu	Ser	Lys	Gly	His	Asn	Ser	Arg	Val	
1				5					10					15		
Lys	Cys	Gly	Leu	Asn	Asn	Asn	Lys	Glu	Pro	Tyr	Met	Thr	Ile	Gln	Gln	
			20					25					30			
Trp	Leu	Phe	Ser	Phe	Lys	Gly	Arg	Ile	Gly	Arg	Arg	Asp	Phe	Trp	Ile	
		35				40						45				
Trp	Ile	Ala	Thr	Trp	Val	Val	Ala	Met	Leu	Leu	Leu	Phe	Phe	Val	Ala	
	50					55					60					
Tyr	Asn	Ala	Trp	Leu	Ser	Thr	Gln	Thr	Ala	Ala	Phe	Ala	Leu	Val	Cys	
65					70					75					80	
Leu	Leu	Trp	Pro	Thr	Ala	Ala	Val	Val	Val	Lys	Arg	Leu	His	Asp	Arg	
				85					90					95		
Gly	Arg	Ser	Gly	Ala	Trp	Ala	Phe	Leu	Ile	Ile	Leu	Ala	Trp	Met	Leu	

			100					105				110			
Val	Ala	Gly	Asn	Trp	Ser	Leu	Leu	Pro	Ser	Ile	Leu	Pro	Trp	Val	Val
		115					120					125			
Gly	Arg	Leu	Leu	Pro	Thr	Val	Ile	Phe	Val	Met	Met	Val	Val	Glu	Leu
		130				135					140				
Gly	Ala	Phe	Ile	Gly	Thr	Gln	Ser	Glu	Asn	Lys	Tyr	Gly	Lys	Asp	Thr
145					150					155					160
Leu	Glu	Val	Lys	Tyr	Arg										
				165											

<210> 10048

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10048

Ser	Val	Ala	Leu	Gln	Phe	Arg	Arg	Gly	Arg	Ile	Met	Ser	Leu	Glu	Val
1			5					10					15		
Phe	Glu	Lys	Leu	Glu	Ser	Lys	Val	Gln	Gln	Ala	Ile	Asp	Thr	Ile	Thr
		20						25				30			
Leu	Leu	Gln	Met	Glu	Ile	Glu	Glu	Leu	Lys	Glu	Lys	Asn	Asn	Ser	Leu
		35					40				45				
Ser	Gln	Glu	Val	Gln	Asn	Ala	Gln	His	Ser	Arg	Glu	Glu	Met	Glu	Arg
		50			55						60				
Glu	Asn	Asn	Gln	Leu	Arg	Glu	Gln	His	Asn	Gly	Trp	Gln	Glu	Arg	Leu
65				70						75					80
Gln	Ala	Leu	Leu	Gly	Arg	Met	Glu	Lys	Val						
				85					90						

<210> 10049

<211> 1073

<212> PRT

<213> Enterobacter cloacae

<400> 10049

Cys	Lys	Asn	Arg	Cys	His	Asp	Arg	Gln	Arg	Arg	Pro	Gln	Leu	Ile	Pro
1			5					10					15		
Tyr	Leu	Arg	Ile	Gln	Ser	Met	Asp	Phe	Ser	Arg	Phe	Phe	Ile	Asp	Arg
		20						25				30			
Pro	Ile	Phe	Ala	Ala	Val	Leu	Ser	Ile	Leu	Ile	Phe	Ile	Thr	Gly	Leu
		35					40				45				
Ile	Ala	Ile	Pro	Leu	Leu	Pro	Val	Ser	Glu	Tyr	Pro	Asp	Val	Val	Pro
		50			55						60				
Pro	Ser	Val	Gln	Val	Arg	Ala	Glu	Tyr	Pro	Gly	Ala	Asn	Pro	Lys	Val
65				70						75					80
Ile	Ala	Glu	Thr	Val	Ala	Thr	Pro	Leu	Glu	Glu	Ala	Ile	Asn	Gly	Val
			85					90					95		
Glu	Asn	Met	Met	Tyr	Met	Lys	Ser	Val	Ala	Gly	Ser	Asp	Gly	Val	Leu
		100						105				110			
Val	Thr	Thr	Val	Thr	Phe	Arg	Pro	Gly	Thr	Asp	Pro	Asp	Gln	Ala	Gln
		115					120					125			
Val	Gln	Val	Gln	Asn	Arg	Val	Ala	Gln	Ala	Glu	Ala	Arg	Leu	Pro	Glu
		130				135					140				
Asp	Val	Arg	Arg	Leu	Gly	Ile	Thr	Thr	Gln	Lys	Gln	Ser	Pro	Thr	Leu
145				150						155					160
Thr	Leu	Val	Val	His	Leu	Phe	Ser	Pro	Gly	Gly	Lys	Tyr	Asp	Ser	Leu
			165						170					175	
Tyr	Met	Arg	Asn	Tyr	Ala	Thr	Leu	Lys	Val	Lys	Asp	Glu	Leu	Ala	Arg
		180					185					190			
Leu	Pro	Gly	Val	Gly	Gln	Ile	Gln	Ile	Phe	Gly	Ser	Gly	Glu	Tyr	Ala
		195					200					205			

Met	Arg	Val	Trp	Leu	Asp	Pro	Asn	Lys	Val	Ala	Ala	Arg	Gly	Leu	Thr
	210					215				220					
Ala	Ser	Asp	Val	Val	Thr	Ala	Met	Gln	Glu	Gln	Asn	Val	Gln	Val	Ser
225					230					235					240
Ala	Gly	Gln	Leu	Gly	Ala	Glu	Pro	Leu	Pro	Lys	Glu	Ser	Asp	Phe	Leu
			245						250					255	
Ile	Ser	Ile	Asn	Ala	Gln	Gly	Arg	Leu	His	Thr	Glu	Glu	Glu	Phe	Gly
			260					265					270		
Asn	Ile	Val	Leu	Lys	Thr	Thr	Gln	Asp	Gly	Thr	Val	Val	Arg	Leu	Arg
	275						280					285			
Asp	Val	Ala	Arg	Ile	Glu	Met	Gly	Ser	Gly	Ser	Tyr	Ala	Leu	Arg	Ser
	290					295					300				
Gln	Leu	Asn	Asn	Lys	Asp	Ala	Val	Gly	Ile	Gly	Ile	Phe	Gln	Ser	Pro
305					310					315					320
Gly	Ala	Asn	Ala	Ile	Asp	Leu	Ser	Asn	Ala	Val	Arg	Ala	Lys	Met	Asp
			325						330					335	
Glu	Leu	Ser	Thr	Arg	Phe	Pro	Ala	Asp	Met	Lys	Trp	Ala	Ala	Pro	Tyr
			340					345					350		
Asp	Pro	Thr	Val	Phe	Val	Arg	Asp	Ser	Ile	Arg	Ala	Val	Val	Gln	Thr
	355						360					365			
Leu	Leu	Glu	Ala	Val	Val	Leu	Val	Val	Leu	Val	Val	Ile	Leu	Phe	Leu
	370					375					380				
Gln	Thr	Trp	Arg	Ala	Ser	Ile	Ile	Pro	Leu	Ile	Ala	Val	Pro	Val	Ser
385					390					395					400
Val	Val	Gly	Thr	Phe	Ser	Ile	Leu	Tyr	Leu	Leu	Gly	Phe	Ser	Leu	Asn
			405						410					415	
Thr	Leu	Ser	Leu	Phe	Gly	Leu	Val	Leu	Ala	Ile	Gly	Ile	Val	Val	Asp
			420					425					430		
Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	Asn	Ile	Glu	Glu	Gly
	435						440					445			
Leu	Ala	Pro	Leu	Ala	Ala	Ala	His	Gln	Ala	Met	Arg	Glu	Val	Ser	Gly
	450					455					460				
Pro	Ile	Ile	Ala	Ile	Ala	Leu	Val	Leu	Cys	Ala	Val	Phe	Val	Pro	Met
465					470					475					480
Ala	Phe	Leu	Ser	Gly	Val	Thr	Gly	Gln	Phe	Tyr	Lys	Gln	Phe	Ala	Val
			485						490					495	
Thr	Ile	Ala	Ile	Ser	Thr	Val	Ile	Ser	Ala	Ile	Asn	Ser	Leu	Thr	Leu
			500					505					510		
Ser	Pro	Ala	Leu	Ala	Ala	Leu	Leu	Lys	Pro	His	Gly	Ala	Pro	Lys	
		515					520				525				
Asp	Phe	Pro	Thr	Arg	Leu	Ile	Asp	Arg	Leu	Phe	Gly	Trp	Ile	Phe	Arg
	530					535					540				
Pro	Phe	Asn	Arg	Phe	Phe	Leu	Arg	Ser	Ser	Asn	Gly	Tyr	Gln	Gly	Leu
545					550					555					560
Val	Gly	Lys	Thr	Leu	Gly	Arg	Arg	Gly	Ala	Val	Phe	Val	Val	Tyr	Leu
			565						570					575	
Leu	Leu	Leu	Cys	Ala	Ala	Gly	Val	Met	Phe	Lys	Ala	Val	Pro	Gly	Gly
			580					585					590		
Phe	Ile	Pro	Thr	Gln	Asp	Lys	Leu	Tyr	Leu	Ile	Gly	Gly	Val	Lys	Met
		595					600					605			
Pro	Glu	Gly	Ser	Ser	Leu	Ala	Arg	Thr	Asp	Ala	Val	Ile	Arg	Lys	Met
	610					615					620				
Ser	Glu	Ile	Gly	Met	Asn	Thr	Glu	Gly	Val	Asp	Tyr	Ala	Val	Ala	Phe
625					630					635					640
Pro	Gly	Leu	Asn	Ala	Leu	Gln	Phe	Thr	Asn	Thr	Pro	Asn	Thr	Gly	Thr
			645						650					655	
Val	Phe	Phe	Gly	Leu	Lys	Pro	Phe	Asp	Gln	Arg	Lys	His	Ser	Ala	Ala
			660					665					670		
Glu	Ile	Asn	Ala	Glu	Ile	Asn	Ala	Lys	Ile	Ala	Gln	Ile	Gln	Gln	Gly
		675					680					685			
Phe	Gly	Phe	Ser	Ile	Leu	Pro	Pro	Pro	Ile	Leu	Gly	Leu	Gly	Gln	Gly

690		695		700
Ser Gly Tyr Ser Leu Tyr Ile Gln Asp Arg Ala Gly Leu Gly Tyr Gly				
705		710		715
Ala Leu Gln Asn Ala Val Asn Thr Met Ser Gly Ala Ile Met Gln Thr				
	725		730	735
Pro Gly Met His Phe Pro Ile Ser Thr Tyr Gln Ala Asn Val Pro Gln				
	740		745	750
Leu Asp Val Gln Val Asp Arg Asp Lys Ala Lys Ala Gln Gly Val Ser				
	755		760	765
Leu Thr Asp Leu Phe Gly Thr Leu Gln Thr Tyr Leu Gly Ser Ser Tyr				
	770		775	780
Val Asn Asp Phe Asn Gln Phe Gly Arg Thr Trp Arg Val Met Ala Gln				
785		790		795
Ala Asp Gly Gln Phe Arg Asp Ser Val Glu Asp Ile Ala Asn Leu Arg				
	805		810	815
Thr Arg Asn Ser Gln Gly Glu Met Val Pro Ile Gly Ser Met Val Asn				
	820		825	830
Ile Thr Thr Thr Tyr Gly Pro Asp Pro Val Ile Arg Tyr Asn Gly Tyr				
	835		840	845
Pro Ala Ala Asp Leu Ile Gly Asp Ala Asp Pro Arg Val Leu Ser Ser				
	850		855	860
Ala Gln Ala Met Thr Gln Leu Asp Ala Met Ser Lys Gln Ile Leu Pro				
865		870		875
Asn Gly Met Asn Ile Glu Trp Thr Asp Leu Ser Phe Gln Gln Ala Thr				
	885		890	895
Gln Gly Asn Thr Ala Leu Ile Val Phe Pro Val Ala Val Leu Leu Ala				
	900		905	910
Phe Leu Val Leu Ala Ala Leu Tyr Glu Ser Trp Thr Leu Pro Leu Ala				
	915		920	925
Val Ile Leu Ile Val Pro Met Thr Met Leu Ser Ala Leu Phe Gly Val				
	930		935	940
Trp Leu Thr Gly Gly Asp Asn Asn Val Phe Val Gln Val Gly Leu Val				
945		950		955
Val Leu Met Gly Leu Ala Cys Lys Asn Ala Ile Leu Ile Val Glu Phe				
	965		970	975
Ala Arg Glu Leu Glu Ile Gln Gly Lys Gly Ile Met Glu Ala Ala Leu				
	980		985	990
Glu Ala Cys Arg Leu Arg Leu Arg Pro Ile Val Met Thr Ser Ile Ala				
	995		1000	1005
Phe Ile Ala Gly Thr Ile Pro Leu Ile Leu Gly His Gly Ala Gly Ala				
	1010		1015	1020
Glu Val Arg Gly Val Thr Gly Ile Thr Val Phe Ser Gly Met Leu Gly				
1025		1030		1035
Val Thr Leu Phe Gly Leu Phe Leu Thr Pro Val Phe Tyr Val Thr Leu				
	1045		1050	1055
Arg Lys Phe Val Thr Arg Gly Lys Ala Glu Arg Glu Val Leu Pro Ala				
	1060		1065	1070

<210> 10050

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 10050

Ile Gln Arg Ala Ser Leu Met Arg Asn Ile Thr Leu Arg His Ser Phe				
1	5		10	15
Pro Arg Ser Arg Ile Gly Arg Ser Met Lys Ser Ile Leu Pro Gly Ala				
	20		25	30
Val Leu Ala Leu Leu Ala Thr Thr Ala Leu Ala Ala Asp Gln Arg Gln				

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<210> 10051
<211> 301
<212> PRT
<213> Enterobacter cloacae
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<400>	10051														
Glu	Lys	Leu	Cys	Met	Thr	Thr	Leu	Asn	Leu	Gly	His	Leu	Ala	Thr	Phe
1				5					10					15	
Arg	Leu	Val	Val	Gln	Arg	Gly	Ser	Phe	Ser	Ala	Ala	Ala	Asp	Val	Met
			20					25					30		
Gly	Ile	Ser	Gln	Pro	Ala	Val	Ser	Leu	Gln	Ile	Arg	Gln	Leu	Glu	Gln
		35					40					45			
Phe	Leu	Gln	Thr	Arg	Leu	Ile	Glu	Arg	Thr	Gly	Arg	Gly	Ile	Lys	Ala
	50					55					60				
Thr	Ala	Ala	Gly	Glu	Ala	Leu	Arg	Val	His	Gly	Glu	Arg	Leu	Glu	Leu
65					70					75					80
Ala	Val	Glu	Glu	Thr	Ile	Arg	Ser	Val	Ser	Ala	Phe	Asn	Gln	Glu	Val
				85					90					95	
Ser	Gly	Thr	Ile	Thr	Leu	Gly	Thr	Gly	Ala	Thr	Ala	Cys	Ile	His	Leu
			100					105					110		
Leu	Pro	Ala	Leu	Leu	Gln	Gln	Leu	Arg	Glu	Glu	Tyr	Pro	Leu	Leu	Arg
		115					120					125			
Ile	Gly	Val	Thr	Thr	Gly	Asn	Thr	Pro	Asp	Ile	Val	Arg	Ala	Ile	Glu
	130					135					140				
Glu	Asn	Arg	Leu	Asp	Met	Gly	Leu	Val	Thr	Leu	Pro	Ala	Ser	Gly	Arg
145					150					155					160
Thr	Leu	Ala	Ile	Met	His	Ala	Met	Glu	Glu	Glu	Phe	Val	Trp	Ile	Gly
				165					170					175	
Ala	Gln	Val	Gln	Pro	Glu	Glu	Gly	Glu	Gln	Phe	Thr	Pro	Asp	Ser	Leu

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<210> 10052
<211> 436
<212> PRT
<213> Enterobacter cloacae
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<400>	10052														
His 1	Ser	Glu	Glu	Asn 5	Thr	Met	Thr	Arg	Arg 10	Ala	Ile	Gly	Val	Ser 15	Glu
Arg	Pro	Pro	Leu 20	Leu	Gln	Thr	Ile	Pro 25	Leu	Ser	Leu	Gln 30	His	Leu	Phe
Ala	Met	Phe 35	Gly	Ala	Thr	Val	Leu 40	Val	Pro	Ile	Leu	Phe 45	His	Ile	Asn
Pro	Ala 50	Thr	Val	Leu	Leu	Phe 55	Asn	Gly	Ile	Gly	Thr 60	Leu	Leu	Tyr	Leu
Phe 65	Ile	Cys	Lys	Gly	Lys 70	Ile	Pro	Ala	Tyr	Leu 75	Gly	Ser	Ser	Phe	Ala 80
Phe	Ile	Ser	Pro	Val 85	Leu	Leu	Leu	Leu 90	Pro	Leu	Gly	Tyr	Glu	Val 95	Ala
Leu	Gly	Gly	Phe 100	Ile	Met	Cys	Gly	Val 105	Leu	Phe	Cys	Leu	Val 110	Ser	Phe
Ile	Val	Lys 115	Lys	Ala	Gly	Thr	Gly 120	Trp	Leu	Asp	Val	Met	Phe 125	Pro	Pro
Ala	Ala 130	Met	Gly	Ala	Ile	Val 135	Ala	Val	Ile	Gly	Leu	Glu	Leu	Ala	Gly
Val 145	Ala	Ala	Asn	Met 150	Ala	Gly	Leu	Leu	Pro	Ala 155	Asp	Gly	Gln	Ser	Pro 160
Asp	Ser	Lys	Thr	Ile 165	Ile	Ile	Ser	Leu	Val 170	Thr	Leu	Gly	Val	Thr 175	Val
Phe	Gly	Ser	Val 180	Leu	Phe	Arg	Gly	Phe 185	Met	Ala	Ile	Ile	Pro 190	Ile	Leu
Ile	Gly	Val 195	Leu	Ala	Gly	Tyr	Ala 200	Leu	Ser	Phe	Val	Met	Gly 205	Val	Val
Asp	Thr 210	Thr	Pro	Ile	Ala	Glu	Ala 215	His	Trp	Phe	Ala	Leu	Pro	Thr	Xaa
Tyr 225	Thr	Pro	Arg	Phe 230	Glu	Trp	Phe	Ala	Ile	Phe 235	Thr	Ile	Leu	Pro	Ala 240
Ala	Leu	Val	Val	Ile 245	Ala	Glu	His	Val	Gly	His 250	Leu	Val	Val	Thr	Ala 255
Asn	Ile	Val	Lys 260	Arg	Asp	Leu	Ile	Arg 265	Asp	Pro	Gly	Leu	His	Arg	Ser
Met	Phe	Ala	Asn	Gly	Phe	Ser	Thr	Ile	Ile	Ser	Gly	Phe	Phe	Gly	Ser

<210> 10054
 <211> 248
 <212> PRT
 <213> Enterobacter cloacae

<400> 10054
 Ile Gln Ile Ile Thr Pro Gly Val Met Lys Met Gln Lys Gln Ala Glu
 1 5 10 15
 Leu Tyr Arg Gly Lys Ala Lys Thr Val Tyr Ser Thr Glu Asn Pro Asp
 20 25 30
 Leu Leu Val Leu Glu Phe Arg Asn Asp Thr Ser Ala Gly Asp Gly Ala
 35 40 45
 Arg Ile Glu Gln Phe Asp Arg Lys Gly Met Val Asn Asn Lys Phe Asn
 50 55 60
 His Phe Ile Met Thr Lys Leu Ala Glu Ala Gly Ile Pro Thr Gln Met
 65 70 75 80
 Glu Ala Leu Leu Ser Asp Thr Glu Cys Leu Val Lys Lys Leu Asp Met
 85 90 95
 Val Pro Val Glu Cys Val Ile Arg Asn Arg Ala Ala Gly Ser Leu Val
 100 105 110
 Lys Arg Leu Gly Ile Glu Glu Gly Ile Glu Leu Asn Pro Pro Leu Phe
 115 120 125
 Asp Leu Phe Leu Lys Asn Asp Ala Met His Asp Pro Met Val Asn Glu
 130 135 140
 Ser Tyr Cys Glu Thr Phe Gly Trp Val Ser Lys Glu Asn Leu Ala Arg
 145 150 155 160
 Met Gln Glu Leu Thr Tyr Lys Ala Asn Asp Val Leu Lys Lys Leu Phe
 165 170 175
 Asp Asp Ala Gly Leu Ile Leu Val Asp Phe Lys Leu Glu Phe Gly Leu
 180 185 190
 Tyr Lys Gly Glu Val Val Leu Gly Asp Glu Phe Ser Pro Asp Gly Ser
 195 200 205
 Arg Leu Trp Asp Lys Glu Thr Leu Asp Lys Met Asp Lys Asp Arg Phe
 210 215 220
 Arg Gln Ser Leu Gly Gly Val Val Glu Ala Tyr Glu Ala Val Ala His
 225 230 235 240
 Arg Leu Gly Val Lys Leu Asp
 245

<210> 10055
 <211> 294
 <212> PRT
 <213> Enterobacter cloacae

<400> 10055
 Phe Glu Val Phe Met Arg Trp Gln Gly Arg Arg Glu Ser Asp Asn Val
 1 5 10 15
 Glu Asp Arg Arg Ser Ser Gly Gly Gly Gly Pro Ser Met Gly Gly Pro
 20 25 30
 Gly Phe Arg Leu Pro Ser Gly Lys Gly Gly Ile Ile Leu Leu Val Val
 35 40 45
 Val Leu Val Ala Gly Tyr Tyr Gly Val Asp Leu Thr Gly Leu Met Thr
 50 55 60
 Gly Glu Thr Gly Gln Gln Gln Tyr Ser Gln Arg Ser Ile Ser Pro
 65 70 75 80
 Asn Glu Asp Glu Ala Lys Phe Thr Ser Val Ile Leu Ala Thr Thr
 85 90 95
 Glu Asp Thr Trp Gly Gln Gln Phe Glu Lys Met Gly Arg Thr Tyr Gln
 100 105 110
 Pro Pro Lys Leu Val Met Tyr Arg Gly Ala Thr Arg Thr Gly Cys Gly
 115 120 125

Thr	Gly	Gln	Ser	Val	Met	Gly	Pro	Phe	Tyr	Cys	Pro	Ala	Asp	Ser	Thr
	130					135					140				
Val	Tyr	Ile	Asp	Leu	Ser	Phe	Tyr	Asp	Asp	Met	Lys	Ser	Lys	Leu	Gly
145					150					155					160
Ala	Asp	Gly	Asp	Phe	Ala	Gln	Gly	Tyr	Val	Ile	Ala	His	Glu	Val	Gly
				165					170					175	
His	His	Val	Gln	Lys	Leu	Leu	Gly	Ile	Glu	Pro	Lys	Val	Arg	Gln	Met
			180					185					190		
Gln	Gln	Asn	Ala	Ser	Gln	Ala	Glu	Met	Asn	Arg	Leu	Ser	Val	Arg	Met
		195					200					205			
Glu	Leu	Gln	Ala	Asp	Cys	Phe	Ala	Gly	Val	Trp	Gly	His	Ser	Met	Gln
	210					215					220				
Gln	Gln	Gly	Val	Leu	Glu	Thr	Gly	Asp	Leu	Glu	Glu	Ala	Leu	Asn	Ala
225					230					235					240
Ala	Gln	Ala	Ile	Gly	Asp	Asp	Arg	Leu	Gln	Gln	Gln	Ser	Gln	Gly	Arg
				245					250					255	
Val	Val	Pro	Asp	Ser	Phe	Thr	His	Gly	Thr	Ser	Glu	Gln	Arg	Tyr	Ser
			260					265					270		
Trp	Phe	Lys	Arg	Gly	Phe	Asp	Ser	Gly	Asn	Pro	Ser	Gln	Cys	Asn	Thr
		275					280					285			
Phe	Gly	Lys	Ala	Met											
	290														

<210> 10056

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 10056

Lys	Pro	Thr	Phe	Cys	Asn	Gly	Asn	Phe	Phe	Asn	Asp	Phe	Phe	Ser	Lys
1				5					10					15	
Val	Ala	Trp	Ser	Leu	Pro	Arg	Arg	Gly	Val	Lys	Ser	Cys	Leu	Ser	Ile
			20					25					30		
Lys	Glu	Ile	Ala	Met	Lys	His	Asp	His	Phe	Val	Val	Gln	Ser	Pro	Asp
		35					40					45			
Thr	Pro	Ala	Lys	Gln	Leu	Leu	Leu	Leu	Phe	His	Gly	Val	Gly	Asp	Asn
	50					55					60				
Ala	Val	Asn	Met	Gly	Gln	Ile	Gly	Ser	Trp	Phe	Ala	Pro	Val	Phe	Pro
65					70					75					80
His	Ala	Leu	Ile	Val	Ser	Ile	Gly	Gly	Val	Glu	Pro	Cys	Gly	Pro	Asp
				85					90					95	
Gly	Arg	Gln	Trp	Phe	Ser	Val	Glu	Gly	Val	Thr	Glu	Glu	Asn	Arg	Gln
			100					105					110		
Ala	Arg	Ile	Asp	Ala	Val	Met	Pro	Ala	Phe	Ile	Asp	Thr	Val	Arg	Tyr
		115					120					125			
Trp	Gln	Gln	Gln	Ser	Gly	Val	Gly	Ala	Asp	Ala	Thr	Ala	Leu	Ile	Gly
	130					135					140				
Phe	Ser	Gln	Gly	Ser	Ile	Met	Ser	Leu	Glu	Ser	Val	Lys	Ala	Gln	Pro
145					150					155					160
Gly	Leu	Val	Ser	Arg	Val	Ile	Ala	Phe	Asn	Gly	Arg	Phe	Ala	Thr	Leu
				165					170					175	
Pro	Gln	Ser	Ala	Thr	Thr	Gln	Thr	Thr	Ile	His	Leu	Ile	His	Gly	Gly
			180					185					190		
Glu	Asp	Arg	Val	Ile	Glu	Leu	Ser	His	Ala	Val	Ala	Ala	Gln	Glu	Thr
	195						200					205			
Leu	Met	Arg	Glu	Gly	Gly	Asp	Val	Thr	Leu	Asp	Ile	Val	Asp	Asp	Leu
	210					215					220				
Gly	His	Ala	Ile	Asp	Asp	Arg	Ser	Met	Gln	Phe	Ala	Leu	Asp	His	Leu
225					230					235					240
Arg	Tyr	Thr	Val	Pro	Lys	His	Tyr	Phe	Asp	Glu	Ala	Leu	Ser	Gly	Ala
				245					250					255	

Lys Pro Asn Asp Asp Asp Ile Val Glu Phe Met
260 265

<210> 10057

<211> 686

<212> PRT

<213> Enterobacter cloacae

<400> 10057

Thr	Leu	Arg	Arg	His	Ala	Ala	Val	Gly	Lys	Tyr	Asp	Asn	Asn	Arg	Lys
1				5					10					15	
Asn	Lys	Val	Ile	Glu	Pro	Lys	Thr	Gly	Val	Val	Met	Asn	Arg	Phe	Ile
			20					25					30		
Met	Ala	Asn	Ala	Gln	Gln	Cys	Ile	Gly	Cys	Arg	Ala	Cys	Glu	Val	Ala
		35					40					45			
Cys	Val	Met	Ala	His	Asn	Gly	Glu	Gln	His	Ala	Leu	Ser	Glu	Arg	His
	50					55					60				
Phe	His	Pro	Arg	Ile	Thr	Val	Leu	Thr	Ser	Gly	Leu	Arg	Lys	Ser	Pro
65					70					75					80
Val	Thr	Cys	His	His	Cys	Glu	Asn	Ala	Pro	Cys	Ala	Gln	Ser	Cys	Pro
				85					90					95	
Asn	Gly	Ala	Ile	Thr	Gln	His	Ser	Asp	Ser	Val	Gln	Val	Asn	Gln	Gln
			100					105					110		
Lys	Cys	Ile	Gly	Cys	Lys	Ala	Cys	Val	Val	Ala	Cys	Pro	Phe	Gly	Thr
		115					120					125			
Met	Asp	Met	Leu	Ile	Ala	Pro	Leu	Glu	Asn	Asp	Ser	Val	Lys	Ala	Ser
	130					135					140				
Ala	His	Lys	Cys	Asp	Leu	Cys	Leu	Glu	Arg	Pro	Gln	Gly	Pro	Ala	Cys
145					150					155					160
Val	Glu	Asn	Cys	Pro	Ala	Glu	Val	Leu	Thr	Leu	Ala	Thr	Pro	Ala	Val
				165					170					175	
Leu	Asp	Lys	Leu	Val	Lys	Gln	Arg	Arg	Gln	Arg	Ser	Ala	Arg	Leu	Asp
			180					185					190		
Ala	Leu	Pro	Trp	His	Ser	Glu	Ala	Val	Gln	Ser	Val	Pro	Pro	Gln	Thr
		195					200					205			
Lys	Arg	Gln	Gln	Met	Gln	Asn	Thr	Pro	Ala	Arg	Gly	Glu	Pro	Asp	Lys
	210					215					220				
Leu	Ser	Pro	Asp	Ala	Arg	Ala	Gly	His	Phe	Asn	Glu	Ile	Tyr	Leu	Pro
225					230					235					240
Phe	Arg	Pro	Glu	Gln	Ala	Gln	Arg	Glu	Ala	Ser	Arg	Cys	Leu	Lys	Cys
				245					250					255	
Gly	Asp	His	Ser	Ile	Cys	Glu	Trp	Thr	Cys	Pro	Leu	His	Asn	His	Ile
			260					265					270		
Pro	Gln	Trp	Ile	Glu	Arg	Ile	Arg	Ala	Gly	Asp	Ile	Ile	Gly	Ala	Ala
		275					280					285			
Glu	Leu	Ser	His	Gln	Thr	Asn	Cys	Leu	Pro	Glu	Ile	Thr	Gly	Arg	Val
	290					295					300				
Cys	Pro	Gln	Asp	Arg	Leu	Cys	Glu	Gly	Ala	Cys	Thr	Leu	Arg	Asp	Ala
305					310					315					320
Ser	Gly	Ala	Val	Thr	Ile	Gly	Asn	Ile	Glu	Arg	Tyr	Ile	Ser	Asp	Arg
				325					330					335	
Ala	Leu	Ala	Met	Gly	Trp	Thr	Pro	Asp	Val	Ser	His	Val	Lys	Pro	Val
			340					345					350		
Gly	Lys	Arg	Val	Ala	Ile	Ile	Gly	Ala	Gly	Pro	Ala	Gly	Leu	Ala	Cys
		355					360					365			
Ala	Asp	Val	Leu	Val	Arg	Ser	Gly	Val	Gly	Val	Thr	Val	Tyr	Asp	Arg
	370					375					380				
His	Pro	Glu	Ile	Gly	Gly	Leu	Leu	Thr	Phe	Gly	Ile	Pro	Ala	Phe	Lys
385					390					395					400
Leu	Asp	Lys	Ser	Leu	Leu	Ala	Arg	Arg	Arg	Glu	Ile	Phe	Ser	Ala	Met
				405					410					415	

Gly Ile Arg Phe Glu Leu Asn Cys Glu Val Gly Lys Asp Val Ser Met
 420 425 430
 Ala Gln Leu Gln Asn Asp Tyr Asp Ala Leu Phe Ile Gly Val Gly Thr
 435 440 445
 Tyr Arg Ser Met Lys Ala Gly Ile Pro His Glu Asp Ala Pro Gly Val
 450 455 460
 Tyr Asp Ala Leu Pro Phe Leu Val Ala Asn Thr Arg Asn Val Met Gly
 465 470 475 480
 Leu Asp Pro Ala Ala Asp Glu Pro Phe Ile Asp Thr Gln Gly Leu Asn
 485 490 495
 Val Val Val Leu Gly Gly Gly Asp Thr Ala Met Asp Cys Val Arg Thr
 500 505 510
 Ala Leu Arg His Gly Ala Ala Lys Val Thr Cys Ala Tyr Arg Arg Asp
 515 520 525
 Glu Ala Asn Met Pro Gly Ser Lys Lys Glu Val Lys Asn Ala Lys Glu
 530 535 540
 Glu Gly Ala Ala Phe Glu Phe Asn Val Gln Pro Val Glu Leu Thr Leu
 545 550 555 560
 Asp Thr Asp Gly Lys Val Asn Gly Ile Arg Met Leu Arg Thr Arg Leu
 565 570 575
 Gly Glu Pro Asp Ala Gln Gly Arg Arg Pro Val Pro Val Ala Gly
 580 585 590
 Ser Glu Phe Val Met Pro Ala Asp Ala Val Ile Met Ala Phe Gly Phe
 595 600 605
 Asn Pro His Ala Met Pro Trp Leu Gln Ala Gln Gly Val Asp Thr Asp
 610 615 620
 Asp Trp Gly Arg Ile Lys Ala Ser Val Glu Ser Arg Tyr Arg Tyr Gln
 625 630 635 640
 Thr Ser Asn Pro Gln Ile Phe Ala Gly Gly Asp Ala Val Arg Gly Ala
 645 650 655
 Asp Leu Val Val Thr Ala Met Ala Glu Gly Arg His Ala Ala Gln Gly
 660 665 670
 Ile Met Asp Trp Leu Gly Val Pro Pro Arg Asn Met His
 675 680 685

<210> 10058

<211> 768

<212> PRT

<213> Enterobacter cloacae

<400> 10058

Pro Lys Arg Glu Arg Asn Asn Lys Met Asp Asp Gln Leu Lys Gln Ser
 1 5 10 15
 Ala Leu Asp Phe His Glu Phe Pro Val Pro Gly Lys Ile Gln Val Ser
 20 25 30
 Pro Thr Lys Pro Leu Ala Thr Gln Arg Asp Leu Ala Leu Ala Tyr Ser
 35 40 45
 Pro Gly Val Ala Ala Pro Cys Leu Glu Ile Glu Lys Asp Pro Leu Ala
 50 55 60
 Ala Tyr Lys Tyr Thr Ala Arg Gly Asn Leu Val Ala Val Ile Ser Asn
 65 70 75 80
 Gly Thr Ala Val Leu Gly Leu Gly Asn Ile Gly Ala Leu Ala Gly Lys
 85 90 95
 Pro Val Met Glu Gly Lys Gly Val Leu Phe Lys Lys Phe Ala Gly Ile
 100 105 110
 Asp Val Phe Asp Ile Glu Val Asp Glu Leu Asp Pro Asp Lys Phe Ile
 115 120 125
 Asn Val Val Ala Ala Leu Glu Pro Thr Phe Gly Gly Ile Asn Leu Glu
 130 135 140
 Asp Ile Lys Ala Pro Glu Cys Phe Tyr Ile Glu Gln Lys Leu Arg Glu
 145 150 155 160

Arg	Met	Asn	Ile	Pro	Val	Phe	His	Asp	Asp	Gln	His	Gly	Thr	Ala	Ile
				165					170					175	
Ile	Ser	Thr	Ala	Ala	Ile	Leu	Asn	Gly	Leu	Arg	Val	Val	Glu	Lys	Asn
			180					185					190		
Leu	Ser	Asp	Val	Arg	Met	Val	Val	Ser	Gly	Ala	Gly	Ala	Ala	Ala	Ile
		195					200					205			
Ala	Cys	Met	Asn	Leu	Leu	Val	Ala	Leu	Gly	Met	Gln	Lys	His	Asn	Ile
	210					215					220				
Val	Val	Cys	Asp	Ser	Lys	Gly	Val	Ile	Tyr	Lys	Asp	Arg	Glu	Pro	Asn
225					230					235					240
Met	Ala	Glu	Thr	Lys	Ala	Ala	Tyr	Ala	Val	Glu	Asp	Asp	Gly	Lys	Arg
				245					250					255	
Thr	Leu	Glu	Asp	Val	Ile	Glu	Gly	Ala	Asp	Ile	Phe	Leu	Gly	Cys	Ser
			260					265					270		
Gly	Pro	Lys	Val	Leu	Thr	Gln	Glu	Met	Val	Gln	Lys	Met	Ala	Arg	Ala
		275					280					285			
Pro	Met	Ile	Leu	Ala	Leu	Ala	Asn	Pro	Glu	Pro	Glu	Ile	Leu	Pro	Pro
	290					295					300				
Leu	Ala	Lys	Ala	Val	Arg	Glu	Asp	Ala	Ile	Ile	Cys	Thr	Gly	Arg	Ser
305					310					315					320
Asp	Tyr	Pro	Asn	Gln	Val	Asn	Asn	Val	Leu	Cys	Phe	Pro	Phe	Ile	Phe
				325					330					335	
Arg	Gly	Ala	Leu	Asp	Val	Gly	Ala	Thr	Ala	Ile	Asn	Glu	Glu	Met	Lys
			340					345					350		
Leu	Ala	Ala	Val	His	Ala	Ile	Ala	Glu	Leu	Ala	His	Ala	Glu	Gln	Ser
		355					360					365			
Glu	Val	Val	Ala	Ser	Ala	Tyr	Gly	Asp	Gln	Asp	Leu	Ser	Phe	Gly	Pro
	370					375					380				
Asp	Tyr	Ile	Ile	Pro	Lys	Pro	Phe	Asp	Pro	Arg	Leu	Ile	Val	Lys	Ile
385					390					395					400
Ala	Pro	Ala	Val	Ala	Lys	Ala	Ala	Met	Asp	Ser	Gly	Val	Ala	Thr	Arg
				405					410					415	
Pro	Ile	Glu	Asp	Phe	Asp	Ala	Tyr	Val	Asp	Lys	Leu	Thr	Glu	Phe	Val
			420					425					430		
Tyr	Lys	Thr	Asn	Leu	Phe	Met	Lys	Pro	Ile	Phe	Ser	Gln	Ala	Arg	Ala
		435					440					445			
Asp	Ala	Lys	Arg	Val	Val	Leu	Ala	Glu	Gly	Glu	Glu	Ala	Arg	Val	Leu
	450					455					460				
His	Ala	Thr	Gln	Glu	Leu	Ile	Thr	Leu	Gly	Leu	Ala	Lys	Pro	Ile	Leu
465					470					475					480
Ile	Gly	Arg	Pro	Ser	Val	Ile	Glu	Met	Arg	Ile	Gln	Lys	Leu	Gly	Leu
				485					490					495	
Gln	Ile	Lys	Pro	Gly	Val	Asp	Phe	Glu	Ile	Val	Asn	Asn	Glu	Ser	Asp
			500					505					510		
Pro	Arg	Phe	Lys	Glu	Tyr	Trp	Asn	Glu	Tyr	Tyr	Ser	Ile	Met	Lys	Arg
		515					520					525			
Arg	Gly	Ile	Thr	Gln	Glu	Gln	Ala	Gln	Arg	Ala	Val	Ile	Ser	Asn	Thr
	530					535					540				
Thr	Val	Ile	Gly	Ala	Ile	Met	Val	His	Arg	Gly	Glu	Ala	Asp	Ala	Leu
545					550					555					560
Ile	Cys	Gly	Thr	Ile	Gly	Glu	Tyr	His	Glu	His	Phe	Ser	Val	Val	Gln
				565					570					575	
Glu	Ile	Phe	Gly	Tyr	Arg	Glu	Gly	Val	His	Thr	Ala	Gly	Ala	Met	Asn
			580				585						590		
Ala	Leu	Leu	Leu	Pro	Ser	Gly	Asn	Thr	Phe	Ile	Ala	Asp	Thr	Tyr	Val
		595					600					605			
Asn	Asp	Asp	Pro	Ser	Pro	Glu	Glu	Leu	Ala	Glu	Ile	Thr	Val	Met	Ala
	610					615					620				
Ala	Glu	Thr	Val	Arg	Arg	Phe	Gly	Ile	Glu	Pro	Lys	Val	Ala	Leu	Leu
625					630					635					640
Ser	His	Ser	Asn	Phe	Gly	Ser	Ser	Lys	Ser	Ala	Ala	Ala	Cys	Lys	Met

				645					650					655			
Arg	Gln	Thr	Leu	Asp	Leu	Val	Arg	Glu	Arg	Ala	Pro	Glu	Leu	Met	Ile		
			660					665					670				
Asp	Gly	Glu	Met	His	Gly	Asp	Ala	Ala	Leu	Val	Glu	Ser	Ile	Arg	Asn		
		675					680					685					
Glu	Arg	Met	Pro	Asp	Ser	Pro	Leu	Lys	Gly	Ser	Ala	Asn	Val	Leu	Ile		
	690					695					700						
Met	Pro	Asn	Val	Glu	Ala	Ala	Arg	Ile	Ser	Tyr	Asn	Leu	Leu	Arg	Val		
705					710					715					720		
Ser	Ser	Ser	Glu	Gly	Val	Thr	Val	Gly	Pro	Val	Leu	Met	Gly	Val	Ser		
			725					730						735			
Lys	Pro	Val	His	Val	Leu	Thr	Pro	Ile	Ala	Ser	Val	Arg	Arg	Ile	Val		
		740						745					750				
Asn	Met	Val	Ala	Leu	Ala	Val	Val	Glu	Ala	Gln	Thr	Gln	Pro	Leu			
		755					760					765					

<210> 10059

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10059

His	Tyr	Ala	Lys	Phe	Trp	Arg	Val	Phe	Pro	Arg	Leu	Leu	Ala	Lys	Cys		
1				5				10						15			
Pro	Val	His	Ala	Ile	Ile	Thr	Val	Phe	Lys	Pro	Glu	Lys	Ala	Val	Asn		
		20						25					30				
Thr	Met	Glu	Ile	Arg	Val	Phe	Arg	Gln	Glu	Asp	Phe	Glu	Glu	Val	Ile		
	35					40					45						
Thr	Leu	Trp	Glu	Arg	Cys	Asp	Leu	Leu	Arg	Pro	Trp	Asn	Asp	Pro	Glu		
50					55					60							
Met	Asp	Ile	Glu	Arg	Lys	Val	Asn	His	Asp	Val	Ser	Leu	Phe	Leu	Val		
65				70					75						80		
Ala	Glu	Val	Asn	Gly	Glu	Val	Val	Gly	Thr	Val	Met	Gly	Gly	Tyr	Asp		
			85					90						95			
Gly	His	Arg	Gly	Ser	Ala	Tyr	Tyr	Leu	Gly	Val	His	Pro	Glu	Tyr	Arg		
		100						105					110				
Ala	Arg	Gly	Ile	Ala	Asn	Ala	Leu	Leu	Asn	Arg	Leu	Glu	Lys	Lys	Leu		
	115					120						125					
Ile	Ala	Arg	Gly	Cys	Pro	Lys	Ile	Gln	Ile	Met	Val	Arg	Glu	Asp	Asn		
130						135					140						
Asp	Val	Val	Leu	Gly	Met	Tyr	Glu	Arg	Leu	Gly	Tyr	Glu	His	Ala	Asp		
145				150					155						160		
Val	Leu	Thr	Leu	Gly	Lys	Arg	Leu	Ile	Glu	Asp	Glu	Glu	Tyr				
			165					170						175			

<210> 10060

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10060

Pro	Pro	Ser	Met	Pro	Arg	Ser	Arg	Gly	Ile	Phe	Phe	Ser	Gly	Gly	Ala		
1			5					10						15			
Met	Ser	Gln	Val	Gln	Ser	Gly	Ile	Leu	Pro	Glu	His	Cys	Arg	Ala	Ala		
		20						25					30				
Ile	Trp	Ile	Glu	Ala	Asn	Val	Lys	Gly	Asp	Val	Asp	Ala	Leu	Arg	Ala		
	35					40					45						
Ala	Ser	Lys	Val	Phe	Val	Asp	Lys	Leu	Ala	Thr	Phe	Gln	Ala	Lys	Phe		
50					55					60							
Pro	Glu	Ala	His	Leu	Gly	Ala	Val	Val	Ala	Phe	Gly	Asn	Thr	Val	Trp		
65				70					75						80		

Arg Gln Leu Ser Gly Gly Glu Gly Ala Lys Glu Leu Lys Asp Phe Ile
 85 90
 Pro Tyr Gly Lys Gly Leu Ala Pro Ala Thr Gln Tyr Asp Val Leu Ile
 100 105 110
 His Ile Leu Ser Leu Arg His Asp Val Asn Phe Ser Ile Ala Gln Ala
 115 120 125
 Ala Ile Glu Ala Phe Gly Asp Ser Ile Asp Val Gln Glu Glu Ile His
 130 135 140
 Gly Phe Arg Trp Val Glu Glu Arg Asp Leu Ser Gly Phe Val Asp Gly
 145 150 155 160
 Thr Glu Asn Pro Ala Gly Glu Glu Thr Arg Arg Glu Val Ala Val Ile
 165 170 175
 Lys Asp Gly Val Asp Ala Gly Gly Ser Tyr Val Phe Val Gln Arg Trp
 180 185 190
 Glu His Asn Leu Arg Gln Leu Asn Arg Met Ser Val His Asp Gln Glu
 195 200 205
 Met Met Ile Gly Arg Thr Lys Asp Ala Asn Glu Glu Ile Asp Gly Asp
 210 215 220
 Ala Arg Pro Val Thr Ser His Leu Ser Arg Val Asp Leu Lys Glu Asp
 225 230 235 240
 Gly Lys Gly Leu Lys Ile Val Arg Gln Ser Leu Pro Tyr Gly Thr Ala
 245 250 255
 Ser Gly Thr His Gly Leu Tyr Phe Cys Ala Tyr Cys Ala Arg Leu Tyr
 260 265 270
 Asn Ile Glu Gln Gln Leu Leu Ser Met Phe Gly Asp Thr Asp Gly Lys
 275 280 285
 Arg Asp Ala Met Leu Arg Phe Thr Arg Pro Val Thr Gly Gly Tyr Tyr
 290 295 300
 Phe Ala Pro Ser Val Glu Arg Leu Leu Ala Leu
 305 310 315

<210> 10061

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10061

Val Met Phe Ala Gly Ser Thr Arg Arg Val Leu Pro Gly Phe Thr Leu
 1 5 10 15
 Ser Leu Gly Thr Ser Leu Leu Phe Val Cys Leu Ile Leu Leu Pro
 20 25 30
 Leu Ser Ala Leu Val Met Gln Leu Ala Glu Met Ser Trp Ser Gln Tyr
 35 40 45
 Trp Glu Val Val Thr Asn Pro Gln Val Val Ala Ala Tyr Lys Val Thr
 50 55 60
 Leu Leu Ser Ala Phe Val Ala Ser Ile Phe Asn Gly Val Phe Gly Leu
 65 70 75 80
 Leu Met Ala Trp Ile Leu Thr Arg Tyr Arg Phe Pro Gly Arg Thr Leu
 85 90 95
 Leu Asp Ala Leu Met Asp Leu Pro Phe Ala Leu Pro Thr Ala Val Ala
 100 105 110
 Gly Leu Thr Leu Ala Ser Leu Phe Ser Val Asn Gly Phe Tyr Gly Glu
 115 120 125
 Trp Leu Ala Lys Phe Asp Ile Lys Val Thr Tyr Thr Trp Leu Gly Ile
 130 135 140
 Ala Val Ala Met Ala Phe Thr Ser Ile Pro Phe Val Val Arg Thr Val
 145 150 155 160
 Gln Pro Val Leu Glu Leu Gly Pro Glu Tyr Glu Glu Ala Ala Glu
 165 170 175
 Thr Leu Gly Ala Thr Arg Trp Gln Ser Phe Arg Lys Val Val Leu Pro
 180 185 190

Glu Leu Ser Pro Ala Leu Leu Ala Gly Val Ala Leu Ser Phe Thr Arg
 195 200 205
 Ser Leu Gly Glu Phe Gly Ala Val Ile Phe Ile Ala Gly Asn Ile Ala
 210 215 220
 Trp Lys Thr Glu Val Thr Ser Leu Met Ile Phe Val Arg Leu Gln Glu
 225 230 235 240
 Phe Asp Tyr Pro Ala Ala Ser Ala Ile Ala Ser Val Ile Leu Ala Ala
 245 250 255
 Ser Leu Leu Leu Leu Phe Ser Ile Asn Thr Leu Gln Ser Arg Phe Gly
 260 265 270
 Arg Arg Val Val Gly His
 275

<210> 10062

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 10062

Arg Ile Arg Lys Asn Val Ser Ile Arg Arg Glu Ile Met Ser Ile Glu
 1 5 10 15
 Ile Ala Asn Ile Lys Lys Ser Phe Gly Arg Thr Gln Val Leu Asn Asp
 20 25 30
 Ile Ser Leu Asp Ile Pro Ser Gly Gln Met Val Ala Leu Leu Gly Pro
 35 40 45
 Ser Gly Ser Gly Lys Thr Thr Leu Leu Arg Ile Ile Ala Gly Leu Glu
 50 55 60
 His Gln Thr Ser Gly His Ile Arg Phe His Gly Thr Asp Val Ser Arg
 65 70 75 80
 Leu His Ala Arg Asp Arg Lys Val Gly Phe Val Phe Gln His Tyr Ala
 85 90 95
 Leu Phe Arg His Met Thr Val Phe Asp Asn Ile Ala Phe Gly Leu Thr
 100 105 110
 Val Leu Pro Arg Arg Glu Arg Pro Asp Ala Ala Ala Ile Lys Ala Lys
 115 120 125
 Val Thr Lys Leu Leu Glu Met Val Gln Leu Ala His Leu Ala Asp Arg
 130 135 140
 Phe Pro Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Leu Ala
 145 150 155 160
 Arg Ala Leu Ala Val Glu Pro Gln Ile Leu Leu Leu Asp Glu Pro Phe
 165 170 175
 Gly Ala Leu Asp Ala Gln Val Arg Lys Glu Leu Arg Arg Trp Leu Arg
 180 185 190
 Gln Leu His Glu Glu Leu Gln Phe Thr Ser Val Phe Val Thr His Asp
 195 200 205
 Gln Glu Glu Ala Met Glu Val Ala Asp Arg Val Val Val Met Ser Gln
 210 215 220
 Gly Asn Ile Glu Gln Val Asp Glu Pro Glu Gln Leu Trp Arg Glu Pro
 225 230 235 240
 Ala Thr Arg Phe Val Leu Glu Phe Met Gly Glu Val Asn Arg Leu Gln
 245 250 255
 Gly Thr Ile Arg Gly Gly Gln Phe His Val Gly Ala His Arg Trp Pro
 260 265 270
 Leu Gly Tyr Thr Ser Ala His Gln Gly Pro Val Asp Leu Phe Leu Arg
 275 280 285
 Pro Trp Glu Val Asp Val Ser Arg Arg Thr Ser Leu Asp Ser Pro Leu
 290 295 300
 Pro Val Gln Val Leu Glu Ala Ser Pro Lys Gly His Tyr Thr Gln Leu
 305 310 315 320
 Val Val Gln Pro Leu Gly Trp Tyr Thr Glu Pro Leu Thr Val Val Met
 325 330 335

Arg Asp Asp Glu Pro Pro His Arg Gly Glu Arg Leu Phe Val Gly Leu
 340 345 350
 Gln His Ala Arg Ile Tyr His Gly Asn Glu Arg Ile Glu Thr Arg Glu
 355 360 365
 Asp Ile Ala Leu Ala Glu Ser Ala
 370 375

<210> 10063

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 10063

Arg Glu Leu Phe Ala Gly Gly Gly Asp Leu Ser Val Met Glu Met Ile
 1 5 10 15
 Leu Phe Arg Asp Asn Thr Arg Ala Gln Gln Thr Asp Ile Val Ala Val
 20 25 30
 Gln Ser Gln Val Val Tyr Gly Ser Val Gly Asn Ser Ile Ala Val Pro
 35 40 45
 Asn Ile Arg Thr His Arg Leu Asn Val Thr Ala Val Pro Thr Val Leu
 50 55 60
 Phe Ser Asn Thr Pro His Tyr Asp Thr Phe Tyr Gly Gly Val Ile Pro
 65 70 75 80
 Asp Glu Trp Phe Ser Gly Tyr Leu Lys Ala Leu Glu Glu Arg Glu Ile
 85 90 95
 Leu Arg Glu Leu Lys Ala Val Thr Thr Gly Tyr Met Gly Ser Ala Ser
 100 105 110
 Gln Ile Val Leu Leu Ala Gln Trp Leu Lys Ala Ile Lys Val Gln His
 115 120 125
 Pro Asp Leu Leu Val Leu Val Asp Pro Val Ile Gly Asp Ile Asp Ser
 130 135 140
 Gly Met Tyr Val Lys Pro Asp Ile Pro Glu Ala Tyr Arg Glu His Leu
 145 150 155 160
 Leu Pro Leu Ala Gln Gly Ile Thr Pro Asn Val Tyr Glu Leu Glu Val
 165 170 175
 Leu Ser Gly Lys Pro Cys Arg Thr Pro Glu Ser Ala Ile Ala Ala Ala
 180 185 190
 Gln Gly Leu Leu Ser Asn Ser Leu Lys Trp Val Ala Ile Thr Ser Ala
 195 200 205
 Pro Val Ala Asp Asp Pro Gln Asn Ile His Val Val Leu Val Ser Glu
 210 215 220
 Gly Gly Val Thr Val Ser Ala His Pro Arg Val Glu Thr Asp Leu Lys
 225 230 235 240
 Gly Thr Gly Asp Leu Phe Cys Ser Glu Leu Val Ser Gly Ile Val Gly
 245 250 255
 Gly Lys Thr Val Ala Asp Ala Ile Arg Met Ala Gly Asp Arg Val Thr
 260 265 270
 Asp Val Met Ile Tyr Thr Gln Ser Lys Gly Tyr Asp Glu Leu Ile Leu
 275 280 285
 Pro Ala
 290

<210> 10064

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10064

Thr Asn Ser Ser Ile Pro Leu Ser Asp Ser Ile Glu Asn Ala Trp Leu
 1 5 10 15
 Val Ser Lys Ile Leu Pro Met Val Pro Ser Thr Gly Ala Thr Ile Leu

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<210> 10065
<211> 425
<212> PRT
<213> Enterobacter cloacae
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Thr	Thr	Gln	Met	Ala	Leu	Ser	Gln	Leu	Pro	Asp	Lys	Gly	Ser	Gly	Ala
1				5					10					15	
Ala	Ser	Pro	Ala	Ala	Ser	Cys	Pro	Ala	Ala	Thr	Ile	Thr	Gly	Ile	Lys
			20					25					30		
Ile	Met	Ser	Leu	Gln	Lys	Thr	Trp	Gly	Asn	Phe	His	Leu	Ser	Ala	Met
		35					40					45			
Gly	Val	Val	Leu	Leu	Ser	Val	Leu	Leu	Val	Gly	Cys	Asp	Asp	Ser	Val
	50					55					60				
Ala	Gln	Asn	Ala	Ala	Pro	Gln	Ala	Pro	Val	Val	Ser	Ala	Ala	Asp	Val
65					70					75					80
Val	Val	Lys	Ser	Ile	Ser	Gln	Trp	Asp	Ser	Phe	Asn	Gly	Arg	Ile	Glu
				85					90					95	
Ala	Val	Glu	Ser	Val	Gln	Leu	Arg	Pro	Arg	Val	Ser	Gly	Tyr	Ile	Glu
			100					105					110		
Lys	Val	Asn	Tyr	Thr	Asp	Gly	Gln	Glu	Val	Lys	Lys	Gly	Glu	Val	Leu
		115					120					125			
Phe	Thr	Ile	Asp	Asp	Arg	Thr	Tyr	Arg	Ala	Ala	Leu	Glu	Gln	Ala	Gln
		130				135					140				
Ala	Asn	Leu	Ala	Arg	Ala	Lys	Thr	Gln	Ala	Ser	Leu	Ala	Gln	Ser	Glu
145				150						155					160
Ala	Asn	Arg	Thr	Asp	Lys	Leu	Ile	Asn	Thr	His	Leu	Val	Ser	Arg	Glu
				165					170					175	
Glu	Trp	Glu	Gln	Arg	Arg	Ser	Ala	Ala	Val	Gln	Ala	Gln	Ala	Asp	Ile
			180				185					190			
Arg	Ala	Ala	Gln	Ala	Ala	Val	Asp	Ala	Ala	Gln	Leu	Asn	Leu	Asp	Phe
		195					200					205			
Thr	Lys	Val	Thr	Ala	Pro	Ile	Asp	Gly	Arg	Ala	Ser	Arg	Ala	Leu	Ile
		210				215					220				
Thr	Ser	Gly	Asn	Leu	Val	Thr	Ala	Gly	Asp	Ser	Ala	Ser	Val	Leu	Thr
225				230					235					240	
Thr	Leu	Val	Ser	Gln	Lys	Thr	Val	Tyr	Val	Tyr	Phe	Asp	Val	Asp	Glu
				245					250					255	
Ser	Thr	Tyr	Leu	His	Tyr	Gln	Lys	Leu	Ala	Arg	Ser	Gly	Gln	Gly	Ala
			260					265					270		
Ser	Ser	Asn	His	Thr	Ala	Leu	Pro	Val	Glu	Ile	Gly	Leu	Thr	Gly	Glu
		275					280				285				
Glu	Gly	Tyr	Pro	His	Gln	Gly	Lys	Val	Asp	Phe	Leu	Asp	Asn	Gln	Leu
		290				295					300				
Thr	Pro	Gly	Thr	Gly	Thr	Ile	Arg	Met	Arg	Ala	Leu	Leu	Asp	Asn	Ser
305				310						315					320
Gln	Arg	Gln	Phe	Thr	Pro	Gly	Leu	Phe	Ala	Arg	Val	Arg	Leu	Pro	Gly
				325					330					335	
Ser	Ala	Glu	Phe	Lys	Ala	Thr	Leu	Val	Asp	Asp	Lys	Ala	Val	Leu	Thr
			340					345					350		
Asp	Gln	Asp</													

355					360					365					
Gln	Arg	Arg	Asp	Ile	Thr	Pro	Gly	Arg	Leu	Ala	Asp	Gly	Leu	Arg	Ile
370					375					380					
Val	Gln	Gln	Gly	Leu	Asn	Pro	Gly	Asp	Lys	Val	Ile	Val	Asp	Gly	Leu
385	390					395					400				
Gln	Lys	Val	Phe	Met	Pro	Gly	Met	Pro	Val	Asn	Ala	Lys	Thr	Val	Ala
405					410					415					
Met	Thr	Ala	Ser	Ala	Ala	Leu	Asn								
420					425										

<210> 10066

<211> 793

<212> PRT

<213> Enterobacter cloacae

<400> 10066

Val	Asn	Arg	Ile	Pro	Ser	Leu	Ile	Phe	Lys	Ile	Pro	Pro	Pro	Leu	Cys
1	5			10			15								
Leu	Pro	Gly	Ile	Phe	Arg	Ala	Thr	Cys	Thr	Ser	Gly	Trp	Met	Pro	Val
20			25			30									
Phe	Leu	Tyr	Pro	Leu	Glu	Arg	Lys	Gly	Cys	Lys	Arg	Ala	Ser	Met	Asn
35			40			45									
Ile	His	His	Ile	Leu	Lys	Gln	Asn	Lys	Asp	Arg	Trp	Trp	Ala	Leu	Pro
50			55			60									
Leu	Ile	Leu	Pro	Val	Val	Leu	Leu	Pro	Val	Leu	Ser	Val	Ala	Asn	Thr
65	70			75			80								
Leu	Thr	Gln	Leu	Gly	Asp	Gly	Ile	Val	Ala	Leu	Tyr	Tyr	Leu	Pro	Leu
85			90			95									
Ser	Phe	Leu	Leu	Ala	Leu	Met	Leu	Phe	Phe	Gly	Leu	Glu	Ala	Leu	Pro
100			105			110									
Gly	Val	Val	Val	Ser	Leu	Phe	Leu	Arg	Tyr	Tyr	Pro	Ser	Val	Gly	Leu
115			120			125									
Phe	Glu	Thr	Val	Ala	Gly	Ile	Leu	His	Phe	Ile	Val	Pro	Leu	Val	Leu
130			135			140									
Ser	Trp	Gly	Gly	Tyr	Arg	Val	Phe	Ala	Pro	Arg	Arg	Asn	Met	Thr	Ala
145	150			155			160								
Tyr	Gly	Asp	Ile	Arg	Leu	Met	Gly	Gln	Arg	Ile	Phe	Trp	Gln	Val	Phe
165			170			175									
Cys	Pro	Ala	Thr	Leu	Phe	Leu	Val	Leu	Phe	Gln	Phe	Ala	Val	Tyr	Leu
180			185			190									
Gly	Ile	Tyr	Glu	Ser	Arg	Gln	Ser	Leu	Ala	Gly	Leu	Asn	Pro	Leu	Asn
195			200			205									
Ile	Arg	Thr	Leu	Ile	Asn	Tyr	Gln	Gly	Leu	Leu	Val	Ser	Gly	Leu	Thr
210	215			220											
Gly	Val	Pro	Leu	Ser	Tyr	Leu	Leu	Ile	Arg	Leu	Ile	Arg	His	Pro	Arg
225	230			235											
Tyr	Ile	Lys	Gly	Leu	Met	Ser	Gln	Leu	Arg	Ala	Gln	Ile	Asp	Lys	Lys
245			250			255									
Val	Thr	Ala	Val	Glu	Phe	Val	Val	Trp	Phe	Leu	Ala	Leu	Gly	Gly	Leu
260			265			270									
Leu	Val	Met	Leu	Leu	Leu	Pro	Met	Asn	Ala	Asn	Ser	Ser	Ile	Phe	Ser
275			280			285									
Thr	Asn	Tyr	Thr	Leu	Ser	Leu	Leu	Met	Pro	Val	Met	Leu	Trp	Gly	Ala
290	295			300											
Met	Arg	Phe	Gly	Tyr	Lys	Leu	Met	Ser	Leu	Ile	Trp	Thr	Pro	Val	Leu
305	310			315											
Leu	Val	Ser	Ile	His	Phe	Phe	Tyr	His	Tyr	Ile	Pro	Val	Gln	Glu	Gly
325			330			335									
Tyr	Gly	Ile	Gln	Leu	Ala	Ile	Thr	Ser	Ser	Ser	Tyr	Leu	Val	Phe	Ser
340			345			350									
Phe	Val	Val	Thr	Tyr	Met	Ser	Met	Leu	Ala	Thr	Arg	Gln	Arg	Ala	Ile

		355				360			365						
Asn	Ile	Arg	Ser	Arg	Ser	Gln	Ala	Phe	Leu	Asp	Pro	Val	Val	His	Met
370						375					380				
Pro	Asn	Leu	Arg	Ala	Leu	Ser	Arg	Glu	Leu	Ala	Ser	His	Pro	Trp	Ser
385					390					395					400
Ala	Leu	Cys	Leu	Leu	Arg	Val	Pro	Glu	Leu	Glu	Val	Leu	Gly	Arg	Asn
			405					410						415	
Tyr	Gly	Val	Met	Leu	Arg	Ile	Gln	Tyr	Lys	Gln	Gln	Leu	Ala	Gln	Trp
		420					425						430		
Ile	Asn	Gly	Thr	Leu	Gln	Pro	Asn	Glu	Arg	Val	Tyr	His	Leu	Thr	Gly
	435						440					445			
Tyr	Asp	Met	Ala	Val	Arg	Leu	Asp	Ala	Glu	Ser	His	Gln	Gln	Arg	Ile
	450					455					460				
Glu	Thr	Leu	Asp	Glu	His	Ile	Lys	Gln	Phe	Val	Phe	Val	Trp	Asp	Gly
465				470					475						480
Met	Pro	Val	Gln	Pro	Gln	Val	Gly	Ile	Ser	Tyr	Cys	Tyr	Val	Arg	Ser
			485					490						495	
Pro	Val	Asn	His	Leu	Tyr	Leu	Val	Leu	Gly	Glu	Leu	Gly	Ile	Val	Ala
		500					505						510		
Asp	Leu	Ser	Leu	Ser	Thr	Asn	His	Pro	Glu	Asn	Leu	Gln	Gln	Arg	Gly
	515					520						525			
Ala	Val	His	Leu	Gln	Arg	Ser	Leu	Lys	Asp	Lys	Val	Ala	Met	Met	Ser
	530					535					540				
Arg	Leu	Gln	Ala	Ala	Leu	Glu	Gln	Asp	Ala	Phe	Thr	Leu	Leu	Val	Gln
545					550				555						560
Pro	Val	Arg	Gly	Leu	Arg	Gly	Asp	Cys	Tyr	His	Glu	Val	Leu	Leu	Arg
			565					570							575
Met	Arg	Asp	Asp	Asn	Gly	Ala	Leu	Ile	Phe	Pro	Glu	Gln	Phe	Leu	Pro
		580					585						590		
Ile	Ala	Gln	Glu	Phe	Gly	Leu	Ser	Arg	Val	Asp	Leu	Trp	Val	Leu	
	595					600					605				
Glu	Arg	Thr	Leu	Ser	Phe	Leu	Ala	Gln	His	Arg	Gln	Arg	Leu	Pro	Gly
	610					615					620				
Gln	Arg	Phe	Ala	Ile	Asn	Leu	Ala	Pro	Ser	Thr	Val	Tyr	Arg	Ala	Gln
625					630					635					640
Phe	Pro	Leu	Glu	Val	Ser	Arg	Leu	Leu	Ala	Lys	Tyr	Ala	Val	Glu	Ala
			645					650						655	
Trp	Gln	Leu	Ile	Phe	Glu	Val	Thr	Glu	Ser	Ser	Ala	Phe	Gly	His	Ala
	660						665						670		
Asp	Leu	Ala	Ala	Ser	Thr	Leu	Arg	Lys	Leu	Gln	Lys	Met	Gly	Ile	Arg
	675					680						685			
Ile	Ala	Ile	Asp	Asp	Phe	Gly	Thr	Gly	Tyr	Ala	Ser	Tyr	Ala	Arg	Leu
	690					695					700				
Lys	Ser	Val	Asp	Ala	Asp	Ile	Leu	Lys	Ile	Asp	Gly	Gly	Phe	Ile	Arg
705					710					715					720
Asn	Ile	Val	Ser	Asn	Ser	Leu	Asp	Tyr	Gln	Ile	Val	Ala	Ser	Ile	Cys
				725					730					735	
His	Leu	Ala	Arg	Met	Lys	Lys	Met	Leu	Val	Val	Ala	Glu	Tyr	Val	Glu
		740					745						750		
Thr	Glu	Glu	Ile	Arg	Ser	Ala	Val	His	Ala	Leu	Gly	Ile	Asp	Tyr	Val
	755					760						765			
Gln	Gly	Tyr	Leu	Ile	Gly	Leu	Pro	Ala	Glu	Leu	Asp	Thr	Leu	Leu	Asp
	770					775					780				
Thr	Glu	Pro	Ser	Gln	Glu	Ser	Ala								
785					790										

<210> 10067

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10067

Arg	Met	Ser	Gly	Phe	Lys	Ala	Gly	Phe	Leu	Trp	Gly	Gly	Ala	Val	Ala
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Ala	His	Gln	Leu	Glu	Gly	Gly	Trp	Lys	Glu	Gly	Gly	Lys	Gly	Val	Ser
		20						25					30		
Val	Ala	Asp	Val	Met	Thr	Ala	Gly	Ala	His	Gly	Val	Pro	Arg	Glu	Ile
		35					40					45			
Thr	Asn	Gly	Val	Met	Glu	Gly	Lys	Asn	Tyr	Pro	Asn	His	Glu	Ala	Ile
	50					55					60				
Asp	Phe	Tyr	His	Arg	Tyr	Lys	Glu	Asp	Ile	Lys	Leu	Phe	Ala	Glu	Met
65					70					75					80
Gly	Phe	Lys	Cys	Phe	Arg	Thr	Ser	Ile	Ala	Trp	Thr	Arg	Ile	Phe	Pro
			85						90					95	
Lys	Gly	Asp	Glu	Leu	Glu	Pro	Asn	Glu	Ala	Gly	Leu	Gln	Phe	Tyr	Asp
		100						105					110		
Asp	Leu	Phe	Asp	Glu	Cys	Leu	Lys	His	Gly	Ile	Glu	Pro	Val	Ile	Thr
	115						120					125			
Leu	Ser	His	Phe	Glu	Met	Pro	Phe	His	Leu	Val	Thr	Glu	Tyr	Gly	Gly
	130					135					140				
Trp	Arg	Asn	Arg	Lys	Leu	Ile	Asp	Phe	Phe	Val	Arg	Phe	Ala	Lys	Val
145					150					155					160
Val	Phe	Glu	Arg	Tyr	Gln	His	Lys	Val	Lys	Tyr	Trp	Met	Thr	Phe	Asn
				165					170					175	
Glu	Ile	Asn	Asn	Gln	Ala	Asn	Phe	His	Glu	Asp	Phe	Ala	Pro	Phe	Thr
			180				185						190		
Asn	Ser	Gly	Leu	Lys	Tyr	Ala	Pro	Gly	Glu	Asp	Arg	Glu	Pro	Val	Met
		195					200					205			
Phe	Gln	Ala	Ala	His	Tyr	Glu	Leu	Val	Ala	Ser	Ala	Leu	Ala	Val	Lys
	210					215					220				
Ala	Gly	Arg	Glu	Ile	Asn	Pro	Ser	Leu	Gln	Ile	Gly	Cys	Met	Ile	Ala
225					230					235					240
Met	Cys	Pro	Ile	Tyr	Pro	Leu	Thr	Cys	Ala	Pro	Asp	Asp	Met	Met	Met
				245					250					255	
Ala	Met	Asn	Ala	Met	His	Arg	Arg	Tyr	Trp	Phe	Thr	Asp	Val	His	Val
			260					265					270		
Arg	Gly	Lys	Tyr	Pro	Gln	His	Leu	Leu	Asn	Tyr	Phe	Glu	Arg	Arg	Gly
		275					280					285			
Phe	Ala	Leu	Asp	Ile	Thr	Glu	Glu	Asp	Lys	Val	Ala	Leu	Thr	Gln	Gly
	290					295					300				
Cys	Val	Asp	Tyr	Ile	Gly	Phe	Ser	Tyr	Tyr	Met	Ser	Phe	Ala	Thr	Lys
305					310					315					320
Ala	Thr	Ala	Asp	Asn	Pro	Thr	Leu	Asp	Tyr	Asp	Glu	Ser	Lys	Ser	Leu
				325					330					335	
Val	Ser	Asn	Pro	Tyr	Val	Gln	Lys	Ser	Asp	Trp	Gly	Trp	Gln	Ile	Asp
			340					345					350		
Pro	Val	Gly	Leu	Arg	Tyr	Ser	Leu	Asn	Trp	Phe	Trp	Asp	His	Tyr	Gln
		355					360					365			
Leu	Pro	Leu	Phe	Ile	Val	Glu	Asn	Gly	Phe	Gly	Ala	Ile	Asp	Val	Gln
	370					375					380				
Glu	Ser	Asp	Gly	Thr	Val	Asn	Asp	Gln	Tyr	Arg	Ile	Asp	Tyr	Leu	Ser
385					390					395					400
Ala	His	Ile	Arg	Glu	Met	Lys	Lys	Ala	Val	Val	Glu	Asp	Gly	Val	Asp
				405					410					415	
Leu	Met	Gly	Tyr	Thr	Pro	Trp	Gly	Cys	Ile	Asp	Leu	Val	Ser	Ala	Gly
			420					425					430		
Thr	Gly	Glu	Met	Lys	Lys	Arg	Tyr	Gly	Phe	Ile	Phe	Val	Asp	Lys	Asp
		435					440					445			
Asn	Glu	Gly	Asn	Gly	Thr	Leu	Asn	Arg	Ser	Lys	Lys	Lys	Ser	Phe	Asp
	450					455					460				
Trp	Tyr	Lys	Gln	Val	Ile	Ala	Ser	Asn	Gly	Glu	Gln	Leu			
465					470						475				

<210> 10068
 <211> 297
 <212> PRT
 <213> Enterobacter cloacae

<400> 10068

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Asn Arg Ser Gln Ser Ile Arg Cys Ser Asp Ile Asn Leu Ile Arg Leu
1      5      10      15
Val Ala Glu Arg Asp Ala Met Glu Ile Lys Leu His Ala Asn Ala Thr
20
Thr Thr Pro Arg Ile Arg Arg Tyr Leu Gln Gln Ser Asp Lys Ser Asp
35      40      45
Arg Glu Leu Ala Val Glu Leu Gly Ile Ser Val Thr Thr Val Arg Arg
50      55      60
Trp Arg Asn Arg Asp Gln Val Ser Asp Asn His Thr Thr Pro Lys Val
65      70      75      80
Ile His Lys Ala Leu Arg Gln Glu Gln Ala Ala Leu Ile Asn Ala Leu
85      90      95
Arg Asp Ile Thr Gly Ala Pro Leu Asp Glu Leu Leu Leu Leu Val Asn
100      105      110
Asp Gly Leu Gly Ile Ala Val Ser Arg Ala Thr Leu Asn Arg Tyr Leu
115      120      125
Lys Pro Ala Ser Val Arg Gln Lys Gly Ala Ser Leu Gln Gly Lys Lys
130      135      140
Ala Leu Lys Ala Gly Ile Met Pro Gln Lys Leu Leu Leu His His Gln
145      150      155      160
Pro Leu Ser Leu His Met Asp Asp Gly Gly Glu Gln His Leu Leu Trp
165      170      175
Ala Arg Glu Pro Val Ser Gly Trp Cys Tyr Ala Arg Leu Tyr Ala Gly
180      185      190
Val Ser Pro Gln Leu Leu Thr Arg Trp Thr Asn Glu Val Leu Ala Ala
195      200      205
Cys Pro Ala Asp Ile Gln Ser Val Glu Thr Phe Gly Leu Ala Val Asn
210      215      220
Leu Pro Glu His Asn Val Thr Val Lys Val His Ser Gln Tyr Tyr Leu
225      230      235      240
Ala Leu Gln Val Thr Val Pro Leu Arg Glu Ile Ile Pro Arg Val Asn
245      250      255
Ser Glu Pro Ala Gly Ala Leu Leu Ile Gln Leu Cys Glu Phe Tyr Asn
260      265      270
Arg Gly Lys Ala Gln Lys Lys Leu Gly Glu Arg Thr Pro Gln Ala Phe
275      280      285
Leu Lys Ala Leu Arg Arg Asn Asp
290      295

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<210> 10069
 <211> 302
 <212> PRT
 <213> Enterobacter cloacae

<400> 10069

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Gly Ser Cys Ser His Arg Gly Trp Leu Met Phe Thr Gly Ser Ile Val
1      5      10      15
Ala Leu Val Thr Pro Met Asp Glu Lys Gly Asn Val Cys Arg Ser Ser
20      25      30
Met Lys Lys Leu Ile Asp Tyr His Val Ala Asn Gly Thr Ser Ala Ile
35      40      45
Val Ser Val Gly Thr Thr Gly Glu Ser Ala Thr Leu Ser His Glu Glu
50      55      60
His Gly Asp Val Val Met Leu Thr Leu Glu Leu Ala Asp Gly Arg Ile

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65					70					75				80	
Pro	Val	Ile	Ala	Gly	Thr	Gly	Ala	Asn	Ala	Thr	Ala	Glu	Ala	Ile	Ser
				85					90					95	
Leu	Thr	Gln	Arg	Phe	Asn	Asp	Ser	Gly	Ile	Val	Gly	Cys	Leu	Thr	Val
			100					105					110		
Thr	Pro	Tyr	Tyr	Asn	Arg	Pro	Thr	Gln	Glu	Gly	Leu	Phe	Gln	His	Phe
		115					120					125			
Lys	Ala	Ile	Ala	Glu	His	Thr	Asp	Leu	Pro	Gln	Ile	Leu	Tyr	Asn	Val
	130						135					140			
Pro	Ser	Arg	Thr	Gly	Cys	Asp	Met	Leu	Pro	Glu	Thr	Val	Gly	Arg	Leu
145					150					155					160
Ser	Lys	Val	Lys	Asn	Ile	Ile	Gly	Ile	Lys	Glu	Ala	Thr	Gly	Asn	Leu
				165					170					175	
Ser	Arg	Val	His	Gln	Ile	Lys	Glu	Leu	Val	Ser	Asp	Asp	Phe	Ile	Leu
			180					185					190		
Leu	Ser	Gly	Asp	Asp	Ala	Thr	Ala	Leu	Asp	Phe	Met	Gln	Leu	Gly	Gly
		195					200					205			
Asn	Gly	Val	Ile	Ser	Val	Thr	Ala	Asn	Val	Ala	Ala	Arg	Asp	Met	Ala
		210				215					220				
Asp	Met	Cys	Lys	Leu	Ala	Ala	Ala	Gly	His	Phe	Asp	Glu	Ala	Arg	Val
225					230					235					240
Ile	Asn	Gln	Arg	Leu	Met	Pro	Leu	His	Asn	Lys	Leu	Phe	Val	Glu	Pro
				245					250					255	
Asn	Pro	Ile	Pro	Val	Lys	Trp	Ala	Cys	Lys	Glu	Leu	Gly	Leu	Val	Ala
			260					265					270		
Thr	Asp	Thr	Leu	Arg	Leu	Pro	Met	Thr	Pro	Ile	Thr	Asp	His	Gly	Arg
		275					280					285			
Glu	Ile	Val	Ala	Gly	Ala	Leu	Lys	His	Ala	Gly	Leu	Leu			
	290					295					300				

<210> 10070

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10070

Ser	Trp	Arg	Leu	Gly	Leu	Ile	Arg	Thr	Pro	Cys	Arg	Gly	Phe	Arg	Arg
1				5					10					15	
Arg	Ala	Ser	Thr	Pro	Thr	Thr	Gly	Gly	Ala	Ser	Arg	Pro	Pro	Trp	Arg
			20					25					30		
Ala	Val	Ile	Ala	Thr	Arg	Pro	Arg	Ile	Arg	Arg	Phe	Leu	Leu	Ala	Val
			35				40					45			
Met	Arg	Tyr	Ala	Val	Arg	Ile	Trp	Trp	Ser	Pro	Arg	Trp	Arg	Lys	Gly
	50					55					60				
Ala	Met	Pro	Arg	Arg	Gly	Ser	Trp	Thr	Gly	Leu	Ala	Cys	Arg	Arg	Ala
65					70					75					80
Thr	Cys	Ile	Asn	Ala	Asp	Gly	Arg	Gln	Ser	Gly	Leu	His	Gly	Val	Val
				85					90					95	

<210> 10071

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10071

Thr	Asp	Ser	Phe	Cys	Arg	Gly	Ala	Arg	Met	Ser	Pro	Asn	Ile	Ser	Val
1				5					10					15	
Ile	Lys	Asp	Lys	Ile	Leu	Ser	Glu	Asn	Tyr	Phe	Val	Leu	Arg	Asn	Ile
			20					25					30		

Thr Tyr Asp Leu Thr Arg Lys Asn Gly Asp Val Ile Arg His Lys Arg
 35 40 45
 Glu Val Tyr Asp Arg Gly Asn Gly Ala Thr Ile Leu Tyr Asn Arg
 50 55 60
 Glu Lys Gln Ser Val Val Leu Ile Arg Gln Phe Arg Ile Ala Thr Trp
 65 70 75 80
 Val Asn Gly Asn Ala Asp Gly Arg Leu Ile Glu Thr Cys Ala Gly Leu
 85 90 95
 Leu Asp Asp Asp Glu Pro Glu Val Cys Ile Arg Lys Glu Ala Ile Glu
 100 105 110
 Glu Thr Gly Phe Glu Val Gly Thr Val Gln Lys Val Phe Glu Leu Phe
 115 120 125
 Met Ser Pro Gly Gly Val Thr Glu Leu Ile His Phe Phe Ile Ala Glu
 130 135 140
 Tyr Thr Asp Ala Gln Arg Thr His Arg Gly Gly Gly Val Asp Asp Glu
 145 150 155 160
 Asp Ile Glu Val Leu Glu Met Pro Phe Ala Lys Ala Val Asp Met Val
 165 170 175
 Lys Arg Gly Glu Ile Arg Asp Gly Lys Ala Val Ile Leu Leu Gln Tyr
 180 185 190
 Leu Gln Thr Ser Gly Leu Met Asn Ala Ala Ala Glu Ala Arg
 195 200 205

<210> 10072

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10072

Ser Lys Met Lys Ser Thr Glu Phe His Pro Gly Asp Tyr Asp Val His
 1 5 10 15
 Gly Arg Leu Arg Leu Pro Phe Leu Phe Trp Cys Val Leu Leu Leu Gln
 20 25 30
 Ala Arg Thr Trp Val Leu Phe Val Met Ala Gly Ala Ser Arg Gly Gln
 35 40 45
 Gly Asp Thr Leu Leu Asn Leu Phe Tyr Pro Asp His Asp Ala Phe Trp
 50 55 60
 Leu Gly Leu Leu Pro Gly Val Pro Ala Val Leu Ala Phe Leu Cys Ser
 65 70 75 80
 Gly Arg Arg Gln Phe Leu Pro Arg Phe Trp Arg Ala Leu Arg Trp Leu
 85 90 95
 Leu Ile Leu Ala Gln Val Val Leu Leu Val Trp Gln Pro Val Leu Trp
 100 105 110
 Leu Tyr Gly Glu Pro Leu Ser Gly Ile Gly Ile Ala Leu Val Val Ala
 115 120 125
 Asp Ile Val Ala Leu Leu Trp Leu Val Thr Asn Pro Arg Leu Arg Ala
 130 135 140
 Cys Phe Met Gln Glu Ser Asp
 145 150

<210> 10073

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 10073

Asn Gly Thr Phe Cys Arg Tyr Cys Thr Pro Thr Ser Val Asp Leu Leu
 1 5 10 15
 Arg Lys Asp Val Ser Met Lys Ser Leu Arg Leu Leu Leu Cys Ala Leu
 20 25 30
 Pro Leu Ala Leu Thr Gly Cys Ser Thr Leu Ser Ser Ile Asn Trp Ser


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<210> 10075
<211> 307
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 10076
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 10076
 Leu Met Tyr Val Lys Gln Asp Gly Tyr Gly Ala Ile Arg Lys Lys Arg
 1 5 10 15
 Tyr Asn Pro Ala Ile Phe Leu Arg Met Pro Pro Gln Arg Arg Lys Arg
 20 25 30
 Met Lys Ile Val Glu Val Lys His Pro Leu Val Lys His Lys Leu Gly
 35 40 45
 Leu Met Arg Glu His Asp Ile Ser Thr Lys Arg Phe Arg Glu Leu Ala
 50 55 60
 Ser Glu Val Gly Ser Leu Leu Thr Tyr Glu Ala Thr Ser Asp Leu Glu
 65 70 75 80
 Thr Glu Lys Val Thr Ile Glu Gly Trp Asn Gly Pro Val Gln Val Glu
 85 90 95
 Gln Ile Lys Gly Lys Lys Ile Thr Val Val Pro Ile Leu Arg Ala Gly
 100 105 110
 Leu Gly Met Met Glu Gly Val Leu Glu His Val Pro Ser Ala Arg Ile
 115 120 125
 Ser Val Val Gly Ile Tyr Arg Asn Glu Glu Thr Leu Glu Pro Val Pro
 130 135 140
 Tyr Phe Gln Lys Leu Val Ser Asn Ile Asp Glu Arg Met Ala Leu Val
 145 150 155 160
 Val Asp Pro Met Leu Ala Thr Gly Gly Ser Met Ile Ala Thr Ile Asp
 165 170 175
 Leu Leu Lys Lys Ala Gly Cys Ser Ser Ile Lys Val Leu Val Leu Val
 180 185 190
 Ala Ala Pro Glu Gly Ile Ala Ala Leu Glu Lys Ala His Pro Asp Val
 195 200 205
 Glu Leu Tyr Thr Ala Ser Val Asp Gln Gly Leu Asn Glu His Gly Tyr
 210 215 220
 Ile Ile Pro Gly Leu Gly Asp Ala Gly Asp Lys Ile Phe Gly Thr Lys
 225 230 235 240

<210> 10077
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 10077
 Ile Gln Phe Thr Val Ser Leu Pro Pro Phe Asp Ser Gly Lys Gly Cys
 1 5 10 15
 Met Leu Glu Met Leu Met Gln Trp Tyr Arg Arg Arg Phe Ser Asp Pro
 20 25 30
 Glu Ala Ile Ala Leu Leu Val Ile Leu Val Ala Gly Phe Gly Ile Leu
 35 40 45
 Phe Phe Phe Ser Gly Leu Leu Ala Pro Leu Leu Val Ala Ile Val Leu
 50 55 60
 Ala Tyr Leu Leu Glu Trp Pro Thr Ala Arg Leu Glu His Ile Gly Cys
 65 70 75 80
 Ser Arg Arg Trp Ala Thr Ser Ile Val Leu Val Leu Phe Val Gly Ile
 85 90 95
 Leu Leu Leu Met Ser Phe Val Val Met Pro Ile Ala Trp Gln Gln Gly
 100 105 110
 Ile Tyr Leu Ile Arg Asp Met Pro Gly Met Leu Asn Lys Leu Ser Asp
 115 120 125

Phe Ala Ala Thr Leu Pro Arg Arg Tyr Pro Ala Leu Met Asp Ala Gly
 130 135 140
 Ile Ile Asp Ala Met Ala Glu Asn Met Arg Ala Arg Ile Met Thr Met
 145 150 155 160
 Gly Asp Ser Val Val Lys Tyr Ser Leu Ala Ser Leu Val Gly Leu Leu
 165 170 175
 Thr Leu Ala Val Tyr Leu Val Leu Val Pro Leu Met Val Phe Phe Leu
 180 185 190
 Val Lys Asp Lys Glu Gln Met Leu Asn Ala Val Arg Arg Val Leu Pro
 195 200 205
 Arg Asn Arg Gly Leu Ala Gly Gln Val Trp Gln Glu Met Asn Gln Gln
 210 215 220
 Ile Thr Asn Tyr Ile Arg Gly Lys Val Leu Glu Met Ile Val Val Gly
 225 230 235 240
 Val Ala Thr Trp Ile Gly Phe Val Ile Phe Gly Leu Asn Tyr Ser Leu
 245 250 255
 Leu Leu Ala Val Leu Val Gly Phe Ser Val Leu Ile Pro Tyr Ile Gly
 260 265 270
 Ala Phe Val Val Thr Ile Pro Val Val Gly Val Ala Leu Phe Gln Phe
 275 280 285
 Gly Leu Gly Thr Glu Phe Trp Ser Cys Phe Ala Val Tyr Leu Ile Ile
 290 295 300
 Gln Gly Leu Asp Gly Asn Leu Leu Val Pro Val Leu Phe Ser Glu Ala
 305 310 315 320
 Val Asn Leu His Pro Leu Val Ile Ile Leu Ser Val Val Ile Phe Gly
 325 330 335
 Gly Leu Trp Gly Phe Trp Gly Val Phe Phe Ala Ile Pro Leu Ala Thr
 340 345 350
 Leu Ile Lys Ala Val Val His Ala Trp Pro Asp Val Pro Ala Val Glu
 355 360 365
 Asp Lys
 370

<210> 10078

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 10078

Gly Asp Leu Met Ala Tyr Ser Val Gln Lys Ser Arg Leu Ala Lys Val
 1 5 10 15
 Ala Gly Val Ser Leu Val Met Leu Leu Ala Ala Cys Ser Ser Asp Ser
 20 25 30
 Arg Tyr Lys Arg Gln Val Ser Gly Asp Glu Ser Tyr Leu Asp Ala Pro
 35 40 45
 Pro Leu Ala Glu Leu His Ala Pro Ala Gly Met Ile Leu Pro Ile Gln
 50 55 60
 Asn Gly Asp Tyr Asn Ile Pro Val Thr Asn Gly Ser Gly Leu Val Gly
 65 70 75 80
 Lys Ala Leu Asp Ile Arg Pro Pro Ala Gln Pro Leu Ala Leu Val Ser
 85 90 95
 Gly Ala Arg Thr Gln Phe Thr Gly Asp Thr Ala Ser Leu Leu Val Glu
 100 105 110
 Ser Ala Arg Gly Thr Thr Leu Trp Pro Gln Val Val Ser Val Ile Gln
 115 120 125
 Ser Lys Asn Tyr Thr Ile Asp Lys Arg Asp Asp Ala Ser Gln Ala Leu
 130 135 140
 Thr Thr Asp Trp Ile Glu Trp Asn Arg Leu Asp Glu Asp Gln Gln Tyr
 145 150 155 160
 Arg Gly Arg Tyr Gln Val Ser Val Lys Pro Gln Gly Tyr Gln Gln Ala
 165 170 175

Val Thr Val Lys Leu Leu Asn Leu Asp Gln Ala Gly Lys Pro Val Ala
 180 185 190
 Asp Pro Ser Ala Met Gln Arg Tyr Ser Thr Glu Met Leu Asn Val Ile
 195 200 205
 Ala Ala Gly Leu Asp Lys Asn Ala Thr Asp Ala Ala Asn Ala Ala Gln
 210 215 220
 Asn Arg Asn Gly Ser Thr Phe Asp Val Gln Ser Gly Ala Asp Asp Thr
 225 230 235 240
 Gly Leu Pro Met Leu Val Val Arg Ala Pro Phe Asn Gln Thr Trp Gln
 245 250 255
 Arg Leu Pro Ala Thr Leu Glu Lys Val Gly Met Lys Val Thr Asp Ser
 260 265 270
 Thr Arg Ser Thr Gly Ser Ile Thr Ala Thr Tyr Lys Pro Leu Ser Asp
 275 280 285
 Ser Ala Trp Gln Glu Leu Gly Ala Ser Asp Pro Gln Leu Pro Ser Gly
 290 295 300
 Asp Tyr Lys Ile Gln Val Gly Asp Leu Asp Asn Arg Ser Ser Leu Gln
 305 310 315 320
 Phe Ile Asp Pro Lys Gly His Thr Leu Thr Gln Ala Gln Asn Asp Ala
 325 330 335
 Leu Val Ala Ala Phe Gln Ala Ala Phe Ser Lys
 340 345

<210> 10079

<211> 656

<212> PRT

<213> Enterobacter cloacae

<400> 10079

Tyr Leu Arg Gln Ser Tyr Val Met Leu Gly Phe Glu Gln Leu Val Asn
 1 5 10 15
 Gln Leu Gln Arg Thr Gly His Arg Arg Leu Val Val Leu Ser Gly Asp
 20 25 30
 Glu Ala Trp Thr Leu Ser Gln Val Thr His Leu Arg Asp Thr Leu Pro
 35 40 45
 Gly Asp Trp Leu Trp Leu Glu Glu Asn Pro Ser Lys Ala Ile Ser Gly
 50 55 60
 Leu Leu Gly Arg Glu Tyr Leu His Ala Val Phe Asp Ala Arg Asp Gly
 65 70 75 80
 Phe Asp Val Ser Ala Phe Ala Ala Leu Ser Gly Thr Leu Arg Ala Gly
 85 90 95
 Ser Leu Leu Val Leu Leu Val Pro Pro Phe Ser Val Trp Ala Asp Arg
 100 105 110
 Pro Asp Arg Asp Ser Leu Arg Trp Ser Asp Ser Ala Glu Pro Ile Ala
 115 120 125
 Thr Pro His Phe Val His His Phe Cys Arg Met Leu Ala Ala Asp Ser
 130 135 140
 Asp Ala Ile Val Trp His Gln His Arg Pro Leu Cys Leu Pro Val Ala
 145 150 155 160
 Pro Asp Leu Pro Ala Trp Gln Pro Ala Ser Gly Glu Pro Gln Arg Glu
 165 170 175
 Gln Ala Glu Ile Leu Asp Ala Leu Leu Thr Met Ser Ala Gly Val Ala
 180 185 190
 Ala Val Thr Ala Pro Arg Gly Arg Gly Lys Ser Ala Leu Ala Gly Met
 195 200 205
 Leu Leu Ser Gly Ile Gln Gly Ser Ala Val Val Thr Ala Pro Ala Lys
 210 215 220
 Gly Ala Thr Asp Val Ile Ala Arg Phe Ala Gly Glu Arg Phe His Phe
 225 230 235 240
 Met Ala Pro Asp Ala Leu Leu Ala Ser Thr Thr Glu Ala Asp Trp Leu
 245 250 255

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Ile Val Asp Glu Ala Ala Ala Ile Pro Gly Pro Leu Leu Glu Lys Leu
      260      265      270
Ala Ser Arg Phe Pro Arg Val Leu Leu Thr Thr Thr Val Gln Gly Tyr
      275      280      285
Glu Gly Thr Gly Arg Gly Phe Leu Leu Lys Phe Cys Ala Arg Phe Ser
      290      295      300
Gly Leu Arg Arg Tyr Thr Leu Ser Thr Pro Val Arg Trp Ala Thr Gly
305      310      315      320
Cys Pro Leu Glu Arg Ile Val Ala Asn Ala Leu Leu Phe Asp Asp Ala
      325      330      335
Leu Ile Asp Arg Lys Pro Ala Gly Glu Val Arg Leu Thr Ser Leu Glu
      340      345      350
Pro Gly Ile Trp Glu Ser Asp Pro Ala Arg Gly Ala Gly Val Tyr Glu
      355      360      365
Leu Leu Cys Ala Ala His Tyr Arg Thr Ser Pro Leu Asp Leu Arg Arg
      370      375      380
Met Met Asp Ala Pro Gly Gln His Phe Ala Val Ala Gln Ala Gly Ala
385      390      395      400
Glu Ile Ala Gly Ala Leu Trp Leu Val Glu Glu Gly Gly Leu Pro Pro
      405      410      415
Glu Leu Ser Arg Ala Val Trp Ala Gly Phe Arg Arg Pro Arg Gly Asn
      420      425      430
Leu Val Ala Gln Ser Leu Ala Ala His Gly Gly Ser Pro Leu Ala Ala
      435      440      445
Thr Leu Lys Gly Arg Arg Val Ser Arg Ile Ala Val His Pro His Arg
      450      455      460
Gln Arg Glu Gly Ile Gly Gln Arg Leu Ile Arg Ser Ala Ser Gly Glu
465      470      475      480
Asp Tyr Leu Ser Val Ser Phe Gly Tyr Thr Asp Glu Leu Trp Arg Phe
      485      490      495
Trp Arg Gln Cys Gly Phe Val Leu Val Arg Met Gly Ser His Arg Glu
      500      505      510
Ala Ser Ser Gly Cys Tyr Thr Ala Met Ala Leu Leu Pro Leu Ser Glu
      515      520      525
Ala Gly His Gln Leu Cys Glu Gln Ala His Gln Arg Leu Cys Arg Asp
      530      535      540
Met Arg Val Leu Ser Ala Trp Asn Gly Glu Lys Ile Pro Val Thr Asp
545      550      555      560
Ala Trp Glu Ala Thr Leu Asn Ser Asp Asp Trp Leu Glu Leu Ala Gly
      565      570      575
Phe Ala Phe Ala His Arg Ala Phe Ser Thr Ser Val Ala Ala Leu Thr
      580      585      590
Arg Leu Val Leu Ala Val Asp Ile Pro Leu Pro Ala Leu Arg Gly Lys
      595      600      605
Met Glu Gly Asn Thr His Asp Phe Gly Arg Lys Ala Leu Leu Ala Lys
      610      615      620
Leu Arg Glu Glu Thr Ala His Ala Leu Glu Arg Leu Asp Tyr Ser Arg
625      630      635      640
Ser Gln Gln Leu Lys Ala Asp Ile Leu Gln Trp Gln Phe Phe Gln
      645      650      655

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<210> 10080

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 10080

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Ile Tyr Pro Ile Asn Pro Ile Glu Pro Ala Arg Pro Gly His Glu Asp
1      5      10      15
Thr Pro Gln Ile Asp Leu Phe Val Ser Gly Ala Val Pro Phe Met Arg
      20      25      30

```

Tyr Cys Val Phe Leu Leu Phe Phe Ile Cys Val Leu Pro Ala Pro Arg
 35 40 45
 Val Trp Ala Ala Pro Ala Gln Gln Ser Phe Ser Asp Trp Gln Val Thr
 50 55 60
 Cys Asn Asn Gln Asn Phe Cys Val Ala Arg Asn Thr Gly Glu His Arg
 65 70 75 80
 Gly Leu Val Met Ser Leu Ser Arg Ser Ala Gly Ala Lys Thr Asp Ala
 85 90 95
 Ser Leu Arg Ile Asp Leu Gly Gly Leu Ser Ala Pro Pro Val Lys Glu
 100 105 110
 Pro Asp Ile Ala Pro Arg Leu Leu Leu Asp Asn Val Pro Leu Lys Leu
 115 120 125
 Thr Ser Gln His Trp Gln Leu Thr Pro Trp His Leu Lys Thr Asp Asp
 130 135 140
 Thr Gly Thr Ile Thr Thr Phe Leu Lys Thr Ile Gln Glu Gly Gln Ala
 145 150 155 160
 Leu Thr Leu Arg Gly Gly Lys Gln Thr Ile Ser Leu Ala Gly Leu Lys
 165 170 175
 Ala Ala Leu Leu Phe Ile Asp Ala Gln Gln Lys Arg Val Gly Ser Glu
 180 185 190
 Thr Ala Trp Ile Lys Lys Gly Asp Ser Pro Pro Leu Ser Val Pro Pro
 195 200 205
 Ala Pro Ala Leu Lys Lys Val Ala Val Val Asn Pro Thr Pro Thr Pro
 210 215 220
 Leu Thr His Asn Glu Leu Asn Asp Leu Leu Asp Tyr Gly Asn Trp Arg
 225 230 235 240
 Met Asn His Ser Gln Cys Ser Leu Asp Pro Asn Arg Arg Glu Val Arg
 245 250 255
 Val Thr Ala Leu Thr Asp Asp Lys Ala Leu Met Ile Ile Ser Cys Glu
 260 265 270
 Ala Gly Ala Tyr Asn Thr Val Asp Leu Ala Trp Leu Val Ser Arg Lys
 275 280 285
 Lys Pro Phe Ala Ala Arg Ser Val Arg Leu Arg Leu Pro Phe Thr Pro
 290 295 300
 Ser Ser Gln Ser Ser Asp Met Glu Leu Met Asn Ala Ser Phe Asp Glu
 305 310 315 320
 Lys Lys Arg Glu Leu Thr Thr Leu Ala Leu Gly Arg Gly Ile Gly Asp
 325 330 335
 Cys Gly Ile Gln Thr Arg Trp Arg Phe Asn Gly Gln Arg Phe Arg Leu
 340 345 350
 Val Arg Tyr Ala Glu Glu Pro Ser Cys Asp Asn Trp Asn Gly Pro Asp
 355 360 365
 Ala Trp Pro Thr Leu Trp Ile Thr Arg
 370 375

<210> 10081

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10081

His Ser Ala Lys Ser Leu Trp Ser Thr Cys Gly Arg Ser Leu Met Ala
 1 5 10 15
 Glu Val Thr Gln Leu Lys Arg Tyr Asp Ala Pro Arg Ile Asn Trp Gly
 20 25 30
 Lys Trp Phe Leu Ile Gly Thr Gly Val Leu Val Ser Ala Phe Ile Leu
 35 40 45
 Val Val Pro Met Val Tyr Ile Phe Val Gln Ala Phe Ser Lys Gly Ile
 50 55 60
 Met Pro Ala Leu Gln Asn Leu Ala Asp Pro Asp Met Leu His Ala Ile
 65 70 75 80

Trp Leu Thr Val Met Ile Ala Leu Ile Thr Val Pro Val Asn Leu Val
 85 90 95
 Phe Gly Val Leu Leu Ala Trp Leu Val Thr Arg Phe Asn Phe Pro Gly
 100 105 110
 Arg Gln Leu Leu Leu Thr Leu Leu Asp Ile Pro Phe Ala Val Ser Pro
 115 120 125
 Val Val Ala Gly Leu Val Tyr Leu Leu Phe Tyr Gly Ser Asn Gly Pro
 130 135 140
 Leu Gly Gly Trp Leu Asp Glu His Asp Leu Gln Ile Met Phe Ala Trp
 145 150 155 160
 Pro Gly Met Val Leu Val Thr Val Phe Val Thr Cys Pro Phe Val Val
 165 170 175
 Arg Glu Leu Val Pro Val Met Leu Ser Gln Gly Ser His Glu Asp Glu
 180 185 190
 Ala Ala Val Leu Leu Gly Ala Ser Gly Trp Gln Met Phe Arg Arg Val
 195 200 205
 Thr Leu Pro Asn Ile Arg Trp Ala Leu Leu Tyr Gly Val Val Leu Thr
 210 215 220
 Asn Ala Arg Ala Ile Gly Glu Phe Gly Ala Val Ser Val Val Ser Gly
 225 230 235 240
 Ser Ile Arg Gly Glu Thr Leu Ser Leu Pro Leu Gln Ile Glu Leu Leu
 245 250 255
 Glu Gln Asp Tyr Asn Thr Val Gly Ser Phe Thr Ala Ala Ala Leu Leu
 260 265 270
 Thr Leu Met Ala Ile Leu Thr Leu Phe Leu Lys Ser Val Val Gln Trp
 275 280 285
 Arg Leu Glu Asn Gln Glu Lys Arg Gln His Gln Glu Gly Asn His Glu
 290 295 300
 His
 305

<210> 10082

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10082

Arg Ser Ala Trp Met Val Glu Thr Pro Ala Ala Gly Thr Ile Gly Val
 1 5 10 15
 His Leu Ala Lys Glu Val Asp Phe Phe Ser Ile Gly Thr Asn Asp Leu
 20 25 30
 Thr Gln Tyr Thr Leu Ala Val Asp Gly Gly Asn Asp Met Ile Ser His
 35 40 45
 Leu Tyr Gln Pro Met Ser Pro Ser Val Leu Asn Leu Ile Lys Gln Val
 50 55 60
 Ile Asp Ala Ser His Ala Glu Gly Lys Trp Thr Gly Met Cys Gly Glu
 65 70 75 80
 Leu Ala Gly Asp Glu Arg Ala Thr Leu Leu Leu Gly Met Gly Leu
 85 90 95
 Asp Glu Phe Ser Met Ser Ala Ile Ser Ile Pro Arg Ile Lys Lys Ile
 100 105 110
 Ile Arg Asn Thr Asn Phe Glu Asp Ala Lys Val Leu Ala Glu Gln Ala
 115 120 125
 Leu Ala Gln Pro Thr Thr Asp Glu Leu Met Thr Leu Val Asn Lys Phe
 130 135 140
 Ile Glu Glu Lys Thr Ile Cys
 145 150

<210> 10083

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10083

Leu Asn Arg Leu Ala Val Pro Arg Gln Arg Val Gln Pro Cys Ala Ala
 1 5 10 15
 Leu Ser Ala Leu Phe Asn Gln Leu Ile Gln His Gly Trp Gly Gly Glu
 20 25 30
 Arg Lys His Leu Cys Arg Ala Val Phe Asn Ala Gly Arg Ala Leu Arg
 35 40 45
 Pro Phe Gln Ala Glu Val Ala Phe Val Arg Arg Gly Leu Tyr Ala Val
 50 55 60
 Val Phe Gln Arg Gly Asp Gln His Val His Arg Ala Lys Arg Thr Gly
 65 70 75 80
 His His Ala Gly Phe Thr Ala Asn Ala Phe Leu Leu Ile Asp Leu Tyr
 85 90 95
 Ala Val Ala Val Leu Arg Asp Gly Ser Val Arg Ala Ala Leu Arg Ala
 100 105 110
 Gly Arg Ile Phe Thr Val Val Ala Gly His Gly Ala Phe Ser Gln Ala
 115 120 125

<210> 10084

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 10084

Pro Arg Lys Gly Arg Thr Gly Leu Thr Thr Ser Ser Gln His Tyr Leu
 1 5 10 15
 Val Ile Thr Ala Leu Gly Ala Asp Arg Pro Gly Ile Val Asn Thr Ile
 20 25 30
 Thr Arg His Val Ser Ser Cys Gly Cys Asn Ile Glu Asp Ser Arg Leu
 35 40 45
 Ala Met Leu Gly Glu Glu Phe Thr Phe Ile Met Leu Leu Ser Gly Thr
 50 55 60
 Trp Asn Ala Ile Thr Leu Ile Glu Ser Thr Leu Pro Leu Lys Gly Ala
 65 70 75 80
 Glu Leu Asp Leu Leu Ile Val Met Lys Arg Thr Thr Ala Arg Pro Arg
 85 90 95
 Pro Ala Leu Pro Ala Thr Val Trp Val Gln Val Glu Val Pro Asp Ser
 100 105 110
 Pro His Leu Ile Glu Arg Phe Thr Ala Leu Phe Asp Ser His Gln Met
 115 120 125
 Asn Ile Ala Glu Leu Val Ser Arg Thr Gln Pro Gly Asp Glu Asn Ala
 130 135 140
 Ile Pro Thr Leu Phe Ile Gln Ile Thr Ala His Ser Pro Ala Ser Gln
 145 150 155 160
 Asp Ala Ser Asn Ile Glu Gln Ala Phe Lys Ala Leu Cys Thr Glu Leu
 165 170 175
 His Ala Gln Gly Ser Ile Ser Val Val Asp Tyr Ser Gln His Glu Gln
 180 185 190
 Asp Gly Val Glu
 195

<210> 10085

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10085

Ser Leu Ala Ala Cys Asn Arg Pro Ala Thr Met Arg Glu Ser Thr Ser
 1 5 10 15
 Cys Ala Ala Cys Asn Asn Ala Leu Ser Arg Thr Arg Arg Cys Asn Lys
 20 25 30
 Gly Glu Val Met Thr Asp Ala Val Lys Ile Tyr His Asn Pro Arg Cys
 35 40 45
 Ser Lys Ser Arg Glu Thr Leu Asn Leu Leu Lys Ser Asn Gly Ile Asp
 50 55 60
 Pro Glu Val Val Leu Tyr Leu Glu Thr Pro Pro Asp Ala Gln Thr Ile
 65 70 75 80
 Arg Gln Leu Leu Lys Met Leu Asn Met Gly Ser Ala Arg Asp Leu Met
 85 90 95
 Arg Gln Lys Glu Asp Leu Tyr Lys Ser Leu Asn Leu Asn Asp Thr Ser
 100 105 110
 Leu Thr Glu Asp Arg Leu Ile Gln Ala Met Val Asp Asn Pro Lys Leu
 115 120 125
 Ile Glu Arg Pro Ile Val Val Ala Asn Gly Lys Ala Arg Ile Gly Arg
 130 135 140
 Pro Pro Glu Asp Val Leu Gly Ile Val
 145 150

<210> 10086

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10086

Met Lys Asn Ile Val Val Leu Ile Ser Gly Asn Gly Ser Asn Leu Gln
 1 5 10 15
 Ala Ile Ile Asp Ala Cys Lys Gln Lys Ile Asn Gly Thr Ile Arg
 20 25 30
 Ala Val Phe Ser Asn Lys Ala Asp Ala Phe Gly Leu Glu Arg Ala Arg
 35 40 45
 Glu Ala Asn Ile Pro Ala His Ala Leu Glu Ala Ser Gln Phe Ala Gly
 50 55 60
 Arg Glu Ala Phe Asp Arg Glu Leu Val Gln Glu Ile Asp Ala Tyr Ala
 65 70 75 80
 Pro Asp Val Val Val Leu Ala Gly Tyr Met Arg Ile Leu Ser Pro Ala
 85 90 95
 Phe Val Ala His Tyr Ala Gly Arg Leu Leu Asn Ile His Pro Ser Leu
 100 105 110
 Leu Pro Lys Tyr Pro Gly Leu His Thr His Arg Gln Val Leu Glu Asn
 115 120 125
 Gly Asp Glu Glu His Gly Thr Ser Val His Phe Val Thr Asp Glu Leu
 130 135 140
 Asp Gly Gly Pro Val Ile Leu Gln Ala Lys Val Pro Val Phe Asp Gly
 145 150 155 160
 Asp Asn Glu Asp Asp Val Thr Glu Arg Val Gln Ala Gln Glu His Ala
 165 170 175
 Ile Tyr Pro Leu Val Val Ser Trp Phe Val Asp Gly Arg Leu Glu Met
 180 185 190
 Arg Asp Gly Ala Ala Trp Leu Asp Gly Val Lys Leu Pro Pro Gln Gly
 195 200 205
 Tyr Ala Ala Glu Gly Val Val Cys Leu Asn Cys Pro Ala Ala Leu Arg
 210 215 220
 Leu His Gly Pro Thr Val Pro
 225 230

<210> 10087

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 10087

Leu Phe Thr Ser Ala Val Pro Lys Arg Thr Arg Phe Thr Ala Thr Gln
 1 5 10 15
 Asp Arg Lys Met Leu Asp Tyr Arg Phe Pro Thr Ala Leu Gln Met Val
 20 25 30
 Leu Ser Val Ala Met Ala Glu Gln Ser Gly Glu Arg Ser Thr Ser Ala
 35 40 45
 Ile Leu Ala Tyr Gly Leu Glu Ala Asn Pro Ser Phe Ile Arg Lys Leu
 50 55 60
 Met Val Pro Leu Ala Arg Asp Gly Ile Ile Val Ser Thr Leu Gly Arg
 65 70 75 80
 Asn Gly Ser Ile His Leu Gly Arg Pro Ala Glu Glu Ile Thr Leu Arg
 85 90 95
 Asp Ile Tyr Leu Ser Val Thr Glu Asp Lys Lys Leu Trp Ala Ser Arg
 100 105 110
 Pro Asp Val Pro Ala Arg Cys Val Val Ser Ala Asn Ala Cys Trp Tyr
 115 120 125
 Phe Lys Ser Ile Ala Asp Glu Ala Glu Gln Ala Ser Leu Ala Val Leu
 130 135 140
 Ala Arg His Thr Val Ala Ser Ala Leu Glu Glu Val Lys Lys Ala Asp
 145 150 155 160
 Thr Ser Gly Cys Asp Pro Val Pro Glu Leu Cys Thr Gln His Lys Lys
 165 170 175
 Ala Pro

<210> 10088

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10088

Glu Lys Ile Met Gly Leu Phe Asp Lys Leu Lys Ser Leu Val Ser Asp
 1 5 10 15
 Asp Lys Lys Asp Ser Gly Thr Ile Glu Ile Val Ala Pro Leu Ser Gly
 20 25 30
 Glu Ile Val Asn Ile Glu Asp Val Pro Asp Val Val Phe Ala Glu Lys
 35 40 45
 Ile Val Gly Asp Gly Ile Ala Ile Lys Pro Thr Gly Asn Lys Met Val
 50 55 60
 Ala Pro Val Asp Gly Thr Ile Gly Lys Ile Phe Glu Thr Asn His Ala
 65 70 75 80
 Phe Ser Ile Glu Ser Asp Ser Gly Ile Glu Leu Phe Val His Phe Gly
 85 90 95
 Ile Asp Thr Val Glu Leu Lys Gly Glu Gly Phe Lys Arg Ile Ala Glu
 100 105 110
 Glu Gly Gln Arg Val Lys Val Gly Asp Pro Val Ile Glu Phe Asp Leu
 115 120 125
 Pro Leu Leu Glu Glu Lys Ala Lys Ser Thr Leu Thr Pro Val Val Ile
 130 135 140
 Ser Asn Met Asp Glu Ile Lys Glu Leu Ile Lys Leu Ser Gly Ser Val
 145 150 155 160
 Thr Val Gly Glu Thr Pro Val Ile Arg Ile Lys Lys
 165 170

<210> 10089

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 10089

Ser Lys Ser Ala Leu Gln Glu Thr Leu Met Lys Pro Asn Ala Gln Leu
 1 5 10 15
 Val Lys Thr Phe Leu Met Gln Leu Gln Asp Ala Ile Cys Gln Lys Leu
 20 25 30
 Ser Ala Ala Asp Gly Gly Glu Phe Gln Glu Asp Ala Trp Gln Arg Glu
 35 40 45
 Ala Gly Gly Gly Gly Arg Ser Arg Val Leu Arg Asn Gly Gly Ile Phe
 50 55 60
 Glu Gln Ala Gly Val Asn Phe Ser His Val His Gly Asp Ala Met Pro
 65 70 75 80
 Ala Ser Ala Thr Ala His Arg Pro Glu Leu Ala Gly Arg Ser Phe Glu
 85 90 95
 Ala Met Gly Val Ser Leu Val Ala His Pro His Asn Pro Phe Val Pro
 100 105 110
 Thr Ser His Ala Asn Val Arg Phe Phe Ile Ala Glu Lys Pro Gly Ala
 115 120 125
 Asp Pro Val Trp Trp Phe Gly Gly Gly Phe Asp Leu Thr Pro Tyr Tyr
 130 135 140
 Gly Phe Glu Glu Asp Ala Val His Trp His Thr Ala Arg Asp Leu
 145 150 155 160
 Cys Leu Pro Phe Gly Glu Asp Val Tyr Pro Lys Tyr Lys Lys Trp Cys
 165 170 175
 Asp Asp Tyr Phe Tyr Leu Lys His Arg Asp Glu Gln Arg Gly Ile Gly
 180 185 190
 Gly Leu Phe Phe Asp Asp Leu Asn Thr Pro Asp Phe Asp Thr Ala Phe
 195 200 205
 Ser Phe Met Arg Ala Val Gly Glu Gly Phe Thr Asp Ala Tyr Leu Pro
 210 215 220
 Ile Val Glu Arg Arg Lys Asn Thr Asp Tyr Gly Val Arg Glu Arg Glu
 225 230 235 240
 Phe Gln Leu Tyr Arg Arg Gly Arg Tyr Val Glu Phe Asn Leu Val Trp
 245 250 255
 Asp Arg Gly Thr Leu Phe Gly Leu Gln Thr Gly Gly Arg Thr Glu Ser
 260 265 270
 Ile Leu Met Ser Met Pro Pro Leu Val Arg Trp Glu Tyr Ser Tyr Ala
 275 280 285
 Pro Lys Glu Gly Ser Pro Glu Ala Ala Leu Ser Glu Phe Ile Arg Val
 290 295 300
 Arg Asp Trp Val
 305

<210> 10090

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 10090

Leu Phe Tyr Phe Gln Gly Val Ile Met Asn Gln Leu Asp Gly Ile Lys
 1 5 10 15
 Gln Phe Thr Thr Val Val Ala Asp Ser Gly Asp Ile Glu Ser Ile Arg
 20 25 30
 His Tyr Gln Pro Glu Asp Ala Thr Thr Asn Pro Ser Leu Leu Lys
 35 40 45
 Ala Ala Gly Leu Ala His Phe Ser His Leu Ile Asp Asp Ala Leu Ala
 50 55 60
 Tyr Gly Lys Gln Arg Gly Gln Thr Gln Glu Gln Gln Val Ala Glu Ala
 65 70 75 80
 Ser Asp Lys Leu Ala Val Asn Ile Gly Ala Glu Ile Leu Lys Ser Ile
 85 90 95

Pro Gly Arg Val Ser Thr Glu Val Asp Ala Arg Leu Ser Phe Asp Gln
 100 105 110
 Glu Lys Ser Ile Asn Lys Ala Arg Arg Leu Val Glu Leu Tyr Gln Glu
 115 120 125
 Gln Gly Ile Asp Lys Ser Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp
 130 135 140
 Glu Gly Ile Arg Ala Ala Glu Val Leu Glu Lys Asp Gly Ile His Cys
 145 150 155 160
 Asn Leu Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu
 165 170 175
 Ala Gly Val Phe Leu Ile Ser Pro Phe Val Gly Arg Ile Tyr Asp Trp
 180 185 190
 Tyr Gln Ala Lys Gln Pro Met Asp Pro Tyr Val Val Glu Glu Asp Pro
 195 200 205
 Gly Val Lys Ser Val Arg Asn Ile Tyr Asp Tyr Tyr Lys Gln His Arg
 210 215 220
 Tyr Glu Thr Ile Val Met Gly Ala Ser Phe Arg Arg Thr Glu Gln Ile
 225 230 235 240
 Leu Ala Leu Ala Gly Cys Asp Arg Leu Thr Ile Ser Pro Glu Leu Leu
 245 250 255
 Lys Lys Leu Gln Glu Ser Glu Glu Thr Val Ile Arg Lys Leu Val Pro
 260 265 270
 Thr Ser Thr Val Leu Pro Lys Pro Lys Pro Met Thr Glu Ala Glu Phe
 275 280 285
 Arg Trp Glu His Asn Gln Asp Pro Met Ala Val Glu Lys Leu Ala Asp
 290 295 300
 Gly Ile Arg Gln Phe Ala Val Asp Gln Arg Lys Leu Glu Asp Leu Leu
 305 310 315 320
 Ala Ala Lys Leu
 325

<210> 10091

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10091

Ile His Lys Arg Thr Lys Gly Phe Thr Met Val Val Met Tyr Gly Ile
 1 5 10 15
 Lys Asn Cys Asp Thr Ile Lys Lys Ala Arg Arg Trp Leu Glu Ala His
 20 25 30
 Asn Ile Asp Tyr Arg Phe His Asp Tyr Arg Ala Asp Gly Leu Asp Pro
 35 40 45
 Ala Phe Leu His Ser Ala Ile Asn Glu Leu Gly Trp Glu Ala Leu Leu
 50 55 60
 Asn Thr Arg Gly Thr Thr Trp Arg Lys Leu Asp Glu Ser Leu Arg Ala
 65 70 75 80
 Thr Ile Asn Asp Ala Asp Ser Ala Ala Lys Leu Met Leu Glu Met Pro
 85 90 95
 Ala Ile Ile Lys Arg Pro Leu Leu Cys Lys Pro Gly Gln Pro Met Leu
 100 105 110
 Leu Gly Phe Ser Glu Thr Leu Tyr Ser Asp Leu Phe Val Glu Val
 115 120 125

<210> 10092

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 10092

Ser Met Ser Cys Pro Val Ile Glu Leu Thr Gln Gln Leu Ile Arg Arg

1				5					10				15
Pro	Ser	Leu	Ser	Pro	Asp	Asp	Ala	Gly	Cys	Gln	Ala	Leu	Met
			20					25				30	
Arg	Leu	Arg	Ala	Ile	Gly	Phe	Thr	Val	Glu	His	Met	Asp	Phe
		35					40					45	
Thr	Gln	Asn	Phe	Trp	Ala	Trp	Arg	Gly	Gln	Gly	Glu	Thr	Leu
	50					55					60		
Ala	Gly	His	Thr	Asp	Val	Val	Pro	Ala	Gly	Asp	Ala	Asp	Arg
65					70					75			80
Asn	Pro	Pro	Phe	Glu	Pro	Thr	Ile	Arg	Asp	Gly	Met	Leu	Phe
			85						90				95
Gly	Ala	Ala	Asp	Met	Lys	Gly	Ser	Leu	Ala	Ala	Met	Val	Val
			100					105					110
Glu	Arg	Phe	Val	Ala	Gln	His	Pro	Asn	His	Lys	Asn	Arg	Leu
		115					120					125	
Leu	Ile	Thr	Ser	Asp	Glu	Glu	Ala	Ser	Ala	His	Asn	Gly	Thr
	130					135					140		
Val	Val	Glu	Ala	Leu	Met	Ala	Arg	Asn	Glu	Arg	Leu	Asp	Tyr
145					150					155			160
Val	Gly	Glu	Pro	Ser	Ser	Thr	Glu	Val	Val	Gly	Asp	Val	Val
			165						170				175
Gly	Arg	Arg	Gly	Ser	Leu	Thr	Cys	Asn	Leu	Thr	Ile	His	Gly
			180					185					190
Gly	His	Val	Ala	Tyr	Pro	His	Leu	Ala	Asp	Asn	Pro	Val	His
	195						200					205	
Ala	Pro	Met	Leu	Asn	Glu	Leu	Val	Ser	Ile	Glu	Trp	Asp	Lys
	210					215					220		
Glu	Phe	Phe	Pro	Pro	Thr	Ser	Met	Gln	Ile	Ala	Asn	Ile	Lys
225					230				235				240
Thr	Gly	Ser	Asn	Asn	Val	Ile	Pro	Gly	Asp	Leu	Phe	Val	Gln
			245						250				255
Phe	Arg	Phe	Ser	Thr	Glu	Leu	Thr	Asp	Glu	Met	Ile	Lys	Ala
			260					265					270
Ile	Ala	Leu	Leu	Glu	Lys	Tyr	Gln	Leu	Arg	Tyr	Thr	Leu	Asp
	275						280					285	
Leu	Ser	Gly	Gln	Pro	Phe	Leu	Thr	Gln	Arg	Gly	Lys	Leu	Val
	290					295					300		
Val	Val	Asn	Ala	Ile	Ala	His	Tyr	Asn	Glu	Ile	Lys	Pro	Gln
305					310					315			320
Thr	Thr	Gly	Gly	Thr	Ser	Asp	Gly	Arg	Phe	Ile	Ala	Arg	Met
			325						330				335
Gln	Val	Val	Glu	Leu	Gly	Pro	Val	Asn	Ala	Thr	Ile	His	Lys
			340					345					350
Glu	Cys	Val	Asn	Ala	Ala	Asp	Leu	Gln	Leu	Leu	Ala	Arg	Met
		355					360					365	
Arg	Ile	Met	Glu	Gln	Leu	Val	Ala						
	370					375							

<210> 10093

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10093

Arg	Met	Asp	Trp	Leu	Ser	Lys	Tyr	Trp	Trp	Ile	Leu	Val	Leu	Val	Phe
1				5				10					15		
Leu	Val	Gly	Val	Leu	Leu	Asn	Val	Ile	Lys	Asp	Leu	Lys	Arg	Val	Asp
			20					25					30		
His	Lys	Lys	Phe	Leu	Ala	Asn	Lys	Pro	Asp	Leu	Pro	Pro	His	Arg	Asp
		35					40					45			
Phe	Asn	Asp	Lys	Trp	Asp	Asp	Glu	Asp	Asp	Trp	Pro	Lys	Lys	Asp	Gln

50
Lys Lys
65

55

60

<210> 10094
<211> 476
<212> PRT
<213> Enterobacter cloacae

<400> 10094

Gly	Val	Met	Met	Ile	Thr	Tyr	Gln	Phe	Ile	Asn	Ala	Leu	Ser	Asp	Ala
1				5					10					15	
Lys	Pro	Gln	Ser	His	Leu	Ile	Ala	Arg	Ala	Asp	Ser	Ser	Leu	Leu	Pro
			20					25					30		
Asp	Ser	Ala	Leu	Ile	Ala	Glu	Met	Arg	Gln	Gln	Ser	Thr	Val	Ala	Asp
		35					40					45			
Ala	Arg	Phe	Gly	Cys	Ala	Pro	Phe	Ala	Arg	Ile	Thr	Leu	Leu	Pro	Asp
		50				55					60				
Ala	Leu	Trp	His	Asp	Ala	Leu	Thr	Glu	Gly	Leu	Ile	Thr	Ala	Leu	Arg
65					70					75					80
Pro	Leu	Leu	Thr	Ala	Pro	Ala	Ser	Ala	Glu	Leu	Val	Leu	Asp	Val	Thr
				85					90					95	
Asp	Ile	Asp	Asp	Val	Val	Leu	Ala	Gln	Val	Leu	Arg	Phe	Leu	Phe	Asn
			100					105					110		
Gln	Ala	His	Met	Leu	Ser	Asp	Leu	Lys	Leu	Lys	Lys	Thr	Asp	Glu	Ala
		115					120					125			
Leu	Arg	Leu	Thr	Cys	Ile	Thr	Ala	Leu	Cys	Leu	Pro	Glu	Gln	Gln	Ala
		130				135					140				
Lys	Leu	Glu	Thr	Thr	Phe	Arg	Gln	Gln	Gln	Ala	Ile	Ala	Leu	Gly	Met
145					150					155					160
Val	Ala	Ala	Arg	Arg	Leu	Ala	Asp	Met	Pro	Ser	Asp	Arg	Cys	Thr	Pro
				165					170					175	
Gln	Phe	Val	Val	Glu	Glu	Ala	Gln	Lys	Leu	Cys	Ala	Ala	Ser	Pro	Ala
			180				185							190	
Leu	Arg	Cys	Glu	Val	Leu	Asp	Glu	Lys	Gln	Ile	Val	Glu	Gln	Gly	Leu
		195					200					205			
Gly	Leu	Leu	His	Ala	Val	Gly	Lys	Gly	Ala	Thr	Cys	Pro	Pro	Arg	Leu
		210				215					220				
Leu	Ala	Ile	His	Tyr	Asn	Gly	Val	Ser	Asp	Gly	Pro	Val	Arg	Cys	Tyr
225					230					235					240
Val	Gly	Lys	Gly	Ile	Thr	Phe	Asp	Thr	Gly	Gly	Leu	Trp	Leu	Lys	Glu
				245					250					255	
Gly	Ala	Gly	Met	Tyr	Thr	Met	Lys	Tyr	Asp	Met	Cys	Gly	Ala	Ala	Asn
			260				265						270		
Val	Leu	Gly	Leu	Met	Leu	Thr	Val	Ala	Glu	Gln	Lys	Leu	Pro	Val	Arg
		275					280					285			
Ile	Met	Gly	Val	Leu	Ala	Leu	Ala	Glu	Asn	Ala	Ile	Gly	Pro	Asp	Ala
		290				295					300				
Met	Gln	Pro	Gly	Thr	Val	Ala	Thr	Ala	Cys	Asn	Gly	Ile	Thr	Val	Glu
305					310					315					320
Ile	Asn	Asn	Thr	Asp	Ala	Glu	Gly	Arg	Leu	Val	Leu	Ala	Asp	Ala	Ile
				325					330					335	
Ala	Trp	Ala	Ser	Gln	Arg	His	Pro	Gln	Ala	His	Tyr	Ile	Ile	Asp	Met
			340					345						350	
Ala	Thr	Leu	Thr	Gly	Ala	Val	Val	Lys	Ala	Leu	Gly	Tyr	Glu	Leu	Ser
		355				360						365			
Gly	Leu	Met	Thr	Gln	Asp	Glu	Pro	Leu	Arg	Gln	Ala	Leu	Thr	Leu	Ala
		370				375					380				
Gly	Lys	Arg	Ser	Gly	Asp	Glu	Val	Trp	Ser	Leu	Pro	Leu	Asp	Ala	Arg
385					390					395					400
Leu	Arg	Lys	Gln	Thr	Asp	Ser	Ala	Ile	Ala	Asp	Leu	Cys	Asn	Thr	Pro

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<210> 10095
<211> 347
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Val	Thr	Asn	Lys 5	Thr	Ser	Leu	Ser	Tyr 10	Lys	Asp	Ala	Gly	Val 15	Asp
Ile	Asp	Ala	Gly 20	Asn	Ala	Leu	Val	Asp 25	Arg	Ile	Lys	Gly	Val 30	Val	Lys
Lys	Thr	Arg 35	Arg	Pro	Glu	Val	Met 40	Gly	Gly	Leu	Gly	Gly 45	Phe	Gly	Ala
Leu	Cys 50	Ala	Leu	Pro	Gln	Lys 55	Tyr	Arg	Glu	Pro	Val 60	Leu	Val	Ser	Gly
Thr 65	Asp	Gly	Val	Gly 70	Thr	Lys	Leu	Arg	Leu	Ala 75	Met	Asp	Leu	Lys	Arg 80
His	Asp	Thr	Ile	Gly 85	Ile	Asp	Leu	Val	Ala 90	Met	Cys	Val	Asn	Asp	Leu 95
Val	Val	Gln	Gly 100	Ala	Glu	Pro	Leu	Phe 105	Phe	Leu	Asp	Tyr	Tyr 110	Ala	Thr
Gly	Lys	Leu 115	Asp	Val	Asp	Thr	Ala 120	Ala	Ser	Val	Ile	Asn	Gly 125	Ile	Ala
Glu	Gly 130	Cys	Leu	Gln	Ser	Gly 135	Cys	Ala	Leu	Val	Gly 140	Gly	Glu	Thr	Ala
Glu 145	Met	Pro	Gly	Met 150	Tyr	His	Gly	Glu	Asp	Tyr 155	Asp	Val	Ala	Gly	Phe 160
Cys	Val	Gly	Val	Val 165	Glu	Lys	Ser	Glu	Ile 170	Ile	Asp	Gly	Ser	Lys	Val 175
Ala	Asp	Gly	Asp 180	Val	Leu	Val	Ala	Leu 185	Ala	Ser	Ser	Gly	Pro 190	His	Ser
Asn	Gly	Tyr 195	Ser	Leu	Val	Arg	Lys 200	Ile	Leu	Glu	Val	Ser	Gly 205	Cys	Asp
Pro	Leu 210	Thr	Thr	Glu	Leu	Asp 215	Gly	Lys	Pro	Leu	Ala 220	Asp	His	Leu	Leu
Ala 225	Pro	Thr	Arg	Ile 230	Tyr	Val	Lys	Asn	Val	Leu	Glu 235	Leu	Ile	Glu	Asn 240
Val	Asp	Val	His	Ala 245	Ile	Ala	His	Leu	Thr 250	Gly	Gly	Gly	Phe	Trp	Glu 255
Asn	Ile	Pro	Arg 260	Val	Leu	Pro	Asp	Asn 265	Thr	Gln	Ala	Val	Ile	Asp	Ala
Ser	Ser	Trp 275	Gln	Trp	Pro	Ser	Val	Phe 280	Asn	Trp	Leu	Gln	Thr	Ala	Gly
Asn	Val 290	Ser	Glu	His	Glu	Met 295	Tyr	Arg	Thr	Phe	Asn	Cys	Gly	Val	Gly
Met 305	Val	Ile	Ala	Leu	Pro	Ala 310	Ser	Glu	Ala	Asp	Lys	Ala	Ile	Lys	Leu 320
Leu	Thr	Glu	Lys	Gly 325	Glu	Asn	Ala	Trp	Lys 330	Ile	Gly	Thr	Ile	Lys	Ala
Ser	Asp	Ser	Glu 340	Gln	Arg	Val	Val	Ile 345	Glu						

<210> 10096

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 10096

Ala	Val	Met	Gly	Gln	Glu	Lys	Leu	Tyr	Ile	Glu	Lys	Glu	Leu	Ser	Trp
1			5					10					15		
Leu	Ala	Phe	Asn	Glu	Arg	Val	Leu	Gln	Glu	Ala	Ala	Asp	Lys	Thr	Asn
		20						25					30		
Pro	Leu	Ile	Glu	Arg	Met	Arg	Phe	Leu	Gly	Ile	Tyr	Ser	Asn	Asn	Leu
		35					40					45			
Asp	Glu	Phe	Tyr	Lys	Val	Arg	Phe	Ala	Glu	Leu	Lys	Arg	Arg	Ile	Ile
	50					55					60				
Ile	Ser	Glu	Glu	Gln	Gly	Leu	Asn	Ser	His	Ser	Arg	His	Leu	Leu	Gly
65					70					75					80
Lys	Ile	Gln	Ser	Arg	Val	Met	Lys	Ala	Asp	Gln	Glu	Phe	Asp	Gly	Leu
				85					90					95	
Tyr	Asn	Glu	Leu	Leu	Leu	Glu	Met	Ala	Arg	Asn	Gln	Ile	Phe	Leu	Ile
			100					105					110		
Asn	Glu	Arg	Gln	Leu	Ser	Ala	Asn	Gln	Gln	Asn	Trp	Leu	Arg	His	Tyr
			115				120					125			
Phe	Lys	His	Tyr	Leu	Arg	Gln	His	Ile	Thr	Pro	Ile	Leu	Ile	Asn	Arg
	130					135					140				
Glu	Thr	Asp	Leu	Val	Gln	Phe	Leu	Lys	Asp	Asp	Tyr	Thr	Tyr	Leu	Ala
145					150					155					160
Val	Glu	Ile	Ile	Arg	Gly	Glu	Thr	Ile	Asn	Tyr	Ala	Leu	Leu	Glu	Ile
				165					170					175	
Pro	Ser	Asp	Lys	Val	Pro	Arg	Phe	Val	Asn	Leu	Pro	Pro	Glu	Thr	Pro
			180					185					190		
Arg	Arg	Arg	Lys	Pro	Met	Ile	Leu	Leu	Asp	Asn	Ile	Leu	Arg	Tyr	Cys
			195				200					205			
Leu	Asp	Asp	Ile	Phe	Lys	Gly	Phe	Phe	Asp	Tyr	Asp	Ala	Leu	Asn	Ala
	210					215					220				
Tyr	Ser	Met	Lys	Met	Thr	Arg	Asp	Ala	Glu	Tyr	Asp	Leu	Val	His	Glu
225					230					235					240
Met	Glu	Ala	Ser	Leu	Met	Glu	Leu	Met	Ser	Ser	Ser	Leu	Lys	Gln	Arg
			245						250					255	
Leu	Thr	Ala	Glu	Pro	Val	Arg	Phe	Val	Tyr	Gln	Arg	Asp	Met	Pro	Asp
			260					265					270		
Ala	Met	Val	Glu	Met	Leu	Arg	Asp	Lys	Leu	Thr	Ile	Ser	Arg	Tyr	Asp
		275					280					285			
Ser	Ile	Ile	Pro	Gly	Gly	Arg	Tyr	His	Asn	Phe	Lys	Asp	Phe	Ile	Gly
	290					295					300				
Phe	Pro	Asn	Val	Gly	Lys	Ala	Asn	Leu	Val	Asn	Lys	Pro	Leu	Pro	Arg
305					310					315					320
Leu	Arg	His	Ile	Trp	Phe	Asp	Lys	Phe	Arg	Asn	Gly	Phe	Asp	Ala	Ile
			325						330					335	
Arg	Glu	Arg	Asp	Val	Leu	Leu	Tyr	Tyr	Pro	Tyr	His	Thr	Phe	Glu	His
			340					345					350		
Val	Leu	Glu	Leu	Leu	Arg	Gln	Ala	Ser	Phe	Asp	Pro	Asn	Val	Leu	Ala
		355					360					365			
Ile	Lys	Ile	Asn	Ile	Tyr	Arg	Val	Ala	Lys	Asp	Ser	Arg	Ile	Ile	Asp
	370					375					380				
Ala	Met	Ile	His	Ala	Ala	His	Asn	Gly	Lys	Lys	Val	Thr	Val	Val	Val
385					390					395					400
Glu	Leu	Gln	Ala	Arg	Phe	Asp	Glu	Glu	Ala	Asn	Ile	His	Trp	Ala	Arg
			405						410				415		
Arg	Leu	Thr	Glu	Ala	Gly	Val	His	Val	Ile	Phe	Ser	Ala	Pro	Gly	Leu
			420					425					430		
Lys	Ile	His	Ala	Lys	Leu	Phe	Leu	Ile	Ser	Arg	Lys	Glu	Gly	Asp	Glu

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<210> 10097
<211> 514
<212> PRT
<213> Enterobacter cloacae
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<400> 10097																
Pro	Met	Pro	Ile	Asn	Asp	Asn	Thr	Pro	Arg	Pro	Gln	Glu	Phe	Ala	Ala	
1				5					10					15		
Val	Asp	Leu	Gly	Ser	Asn	Ser	Phe	His	Met	Val	Ile	Ala	Arg	Glu	Val	
			20					25					30			
Asp	Gly	Ala	Met	Gln	Ile	Ile	Gly	Arg	Leu	Lys	Gln	Arg	Val	His	Leu	
		35					40					45				
Ala	Asp	Gly	Leu	Asp	Ala	Arg	Asn	Met	Leu	Ser	Glu	Glu	Ala	Met	Glu	
		50				55					60					
Arg	Gly	Leu	Asn	Cys	Leu	Ser	Leu	Phe	Ala	Glu	Arg	Leu	Gln	Gly	Phe	
65				70						75				80		
Ser	Pro	Ser	Ser	Val	Cys	Ile	Val	Gly	Thr	His	Thr	Leu	Arg	Gln	Ala	
				85				90						95		
Leu	Asn	Ala	Pro	Glu	Phe	Leu	Lys	Arg	Ala	Glu	Lys	Val	Ile	Pro	Tyr	
			100					105					110			
Pro	Ile	Glu	Ile	Ile	Ser	Gly	Asn	Glu	Glu	Ala	Arg	Leu	Ile	Phe	Met	
		115					120					125				
Gly	Val	Glu	His	Thr	Gln	Pro	Glu	Lys	Gly	Arg	Lys	Leu	Val	Ile	Asp	
		130				135					140					
Ile	Gly	Gly	Gly	Ser	Thr	Glu	Leu	Val	Ile	Gly	Glu	Asp	Phe	Glu	Pro	
145				150						155				160		
Arg	Leu	Val	Glu	Ser	Arg	Arg	Met	Gly	Cys	Val	Ser	Phe	Ala	Gln	Met	

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<210> 10098
<211> 75
<212> PRT
<213> Enterobacter cloacae
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<400> 10098															
Pro	Tyr	Arg	Pro	Lys	Gly	Tyr	Thr	Gln	Glu	Lys	Lys	Val	Ser	Gln	Ala
1				5					10					15	
Thr	Arg	Met	Arg	Lys	Arg	His	Arg	Phe	Asn	Thr	Arg	Met	Thr	Arg	Ile
			20					25					30		
Ile	Leu	Leu	Ile	Ser	Phe	Leu	Phe	Phe	Phe	Gly	Arg	Phe	Val	Tyr	Ser
		35					40					45			
Ser	Ile	Gly	Ala	Trp	Tyr	His	His	Gln	Asp	Lys	Ile	Gln	Ser	Gln	Gln
	50					55					60				
Ser	Gly	Leu	Val	Val	Asp	Ser	Pro	Glu	Arg						

65

70

75

<210> 10099

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 10099

Lys	Ile	Met	Glu	Thr	Pro	Ala	Leu	Pro	Arg	Arg	Leu	Ala	Leu	Thr	Ala	1	5	10	15
Gly	Cys	Asn	Gln	Leu	Ile	Asn	Trp	Gly	Ile	Ser	Phe	Tyr	Met	Pro	Gly	20	25	30	
Thr	Phe	Ala	His	Ala	Ile	Thr	Ala	Asp	Arg	Ser	Trp	Ser	Ser	Pro	Glu	35	40	45	
Ile	Tyr	Leu	Gly	Leu	Thr	Leu	Ala	Met	Leu	Val	Met	Ala	Ile	Val	Ser	50	55	60	
Pro	Phe	Val	Ala	Pro	Leu	Leu	Ala	Arg	Phe	Gly	Gly	Gln	Arg	Val	Val	65	70	75	80
Met	Ser	Gly	Thr	Leu	Leu	Ile	Ala	Val	Ser	Cys	Leu	Ser	Met	Ala	Phe	85	90	95	
Thr	Pro	Thr	Leu	Ser	Gly	Trp	Tyr	Gly	Ala	Trp	Leu	Leu	Thr	Gly	Ile	100	105	110	
Gly	Met	Arg	Leu	Ser	Leu	Tyr	Asp	Ala	Leu	Phe	Ser	Ala	Leu	Val	Asp	115	120	125	
Leu	Tyr	Gly	Pro	Gln	Ala	Arg	Arg	Thr	Ile	Ser	Arg	Val	Thr	Leu	Ala	130	135	140	
Gly	Gly	Leu	Ala	Ser	Ala	Val	Phe	Trp	Pro	Leu	Gly	Asp	Ala	Leu	Leu	145	150	155	160
Asn	Val	Met	Gly	Trp	Gln	Asp	Ala	Leu	Lys	Ile	Tyr	Ala	Leu	Phe	Gly	165	170	175	
Leu	Leu	Ser	Ala	Leu	Leu	Arg	Arg	Phe	Pro	Arg	Gln	Arg	Phe	Thr		180	185	190	
Val	Lys	Pro	Lys	Ala	Cys	Thr	Gln	Val	Ser	Pro	His	Asp	Arg	Arg	Asn	195	200	205	
Gly	Trp	Leu	Tyr	Ala	Thr	Phe	Ile	Ala	Leu	Ile	Thr	Phe	Val	Ser	Asn	210	215	220	
Gly	Thr	Ser	Thr	His	Leu	Pro	Glu	Phe	Ile	Ala	Ser	Phe	Gly	Leu	Pro	225	230	235	240
Val	Ala	Val	Gly	Met	Leu	Trp	Gly	Met	Gly	Gln	Thr	Gly	Ala	Arg	Leu	245	250	255	
Met	Glu	Val	Leu	Ala	Gly	Ala	Arg	Leu	Thr	Pro	Leu	Lys	Leu	Thr	Leu	260	265	270	
Phe	Thr	Ala	Leu	Ala	Met	Pro	Leu	Cys	Phe	Leu	Ile	Gly	Leu	Ser	Ser	275	280	285	
Asp	Met	Leu	Ala	Trp	Cys	Ala	Ala	Gly	Phe	Val	Phe	Gly	Phe	Gly	Ala	290	295	300	
Ile	Asn	Gly	Leu	Val	Thr	Ile	Val	Lys	Ala	Thr	Leu	Pro	Leu	Glu	Leu	305	310	315	320
Phe	Ser	Thr	Glu	Arg	Tyr	Ala	Ser	Arg	Thr	Gly	Leu	Leu	Leu	Ile	Pro	325	330	335	
Gly	Gln	Leu	Met	Ala	Ala	Ala	Ser	Pro	Phe	Ala	Tyr	Ala	Trp	Leu	Asn	340	345	350	
Lys	Ser	Leu	Gly	Ile	Thr	Gly	Gly	Met	Trp	Val	Ser	Ala	Gly	Leu	Thr	355	360	365	
Leu	Val	Ile	Ala	Gly	Phe	Ala	Val	Ala	Leu	Val	Arg	Ser	Pro	Gly	Lys	370	375	380	
Gln	Thr	Val	Ser	His	Cys	Ile	Pro	Ser	Ala	Thr	Leu	Thr	Asn	Arg	Tyr	385	390	395	400
Lys	Thr	Pro	Ala	Glu	Ala	Asn	Ile	Pro	Asp	Thr						405	410		

<210> 10100
 <211> 469
 <212> PRT
 <213> Enterobacter cloacae

<400> 10100

Tyr	Arg	Thr	Arg	Ser	Glu	Gly	Gly	Arg	Leu	Met	Arg	Asn	Phe	Trp	His
1				5					10					15	
His	Leu	Arg	Leu	Pro	Thr	Leu	Val	Arg	Arg	Met	Leu	Val	Ala	Gln	Met
			20					25					30		
Leu	Leu	Leu	Thr	Leu	Leu	Trp	Cys	Leu	Phe	Leu	Thr	Phe	Ile	Leu	Leu
		35					40					45			
Glu	Asp	Leu	Arg	Ser	Pro	Pro	Ile	Leu	Thr	Gly	Ser	Glu	Thr	Tyr	Glu
	50					55					60				
Thr	Val	Phe	Ser	Leu	Val	Glu	Ser	Met	Asp	Asp	Arg	Pro	Gln	Ala	Arg
65					70				75						80
Asp	Ala	Val	Leu	Ala	Ala	Phe	Ser	Lys	Ala	Leu	Arg	Glu	Gly	Tyr	Gly
				85					90					95	
Gly	Gly	Glu	Tyr	Pro	Glu	Leu	Ser	Ile	Asn	Leu	Ile	Val	Arg	Lys	Asn
			100					105					110		
Asn	Glu	Ile	Ile	Phe	Ser	Ser	Asp	Gly	Ala	Pro	Thr	Gly	Val	Lys	Asn
		115					120					125			
Ser	Arg	Leu	Gly	Val	Met	Gln	His	Val	Gln	Ser	Glu	Asp	His	Thr	Trp
		130				135					140				
Thr	Ser	Arg	Thr	Leu	Lys	Ser	Ala	His	Ser	Asp	Val	Glu	Val	Thr	Leu
145					150					155					160
Phe	Thr	Pro	Ala	Gly	Ser	Trp	Asn	Phe	Phe	Ile	Tyr	Leu	Asn	Ser	Arg
			165					170						175	
Gly	Tyr	Tyr	Val	Met	Pro	Leu	Met	Ile	Cys	Ile	Pro	Phe	Leu	Leu	Phe
			180					185					190		
Pro	Ala	Trp	Leu	Ser	Ile	Arg	Ile	Ala	Met	Arg	Pro	Trp	Asn	Lys	Val
		195					200					205			
Val	Asp	Glu	Ile	Ser	Leu	Arg	Thr	Pro	Asp	Asp	Leu	Ser	Pro	Leu	Lys
	210					215				220					
Ala	Val	Pro	Arg	His	Arg	Glu	Leu	Arg	Gln	Thr	Val	Asp	Ala	Ile	Asn
225					230					235					240
Asp	Phe	Leu	Ala	Arg	Val	Gln	Glu	Ser	Ala	Glu	Arg	Glu	Lys	Met	Phe
			245						250					255	
Ile	Ala	Asp	Ala	Ala	His	Glu	Leu	Arg	Thr	Pro	Leu	Ala	Ala	Met	Arg
			260					265					270		
Ile	Asn	Val	Glu	Ala	Leu	Gln	Ser	Trp	Val	Ile	Ser	Glu	Ser	Gln	Gln
		275					280					285			
Glu	Leu	Leu	Ala	Gly	Ile	Val	Arg	Ser	Asn	Ser	Arg	Ala	Ala	Arg	Leu
	290					295					300				
Ile	Asn	Gln	Leu	Leu	Leu	Met	Met	His	Ser	Glu	Ala	His	Ile	Ser	Pro
305					310					315					320
Val	Pro	Leu	Thr	Thr	Leu	Ile	Gln	Glu	Arg	Met	Ala	Ala	Leu	Glu	Pro
				325					330					335	
Leu	Ala	Ser	Gly	Arg	Arg	Ile	Glu	Phe	Glu	Phe	Phe	Ala	Asp	Asp	Glu
			340					345					350		
Ile	His	Val	Ala	Gly	Ile	Arg	Glu	Arg	Leu	Val	Ser	Leu	Ile	Asp	Asn
		355					360					365			
Leu	Ile	Glu	Asn	Ala	Val	Lys	Tyr	Ser	Pro	Glu	Gly	Gly	Arg	Ile	Glu
	370					375					380				
Val	Gln	Leu	Gln	Ser	Arg	Asp	Lys	Cys	Ala	Gln	Leu	Arg	Val	Ser	Asp
385					390					395					400
Ala	Gly	Pro	Gly	Ile	Pro	Ile	Glu	Leu	Arg	Glu	Arg	Val	Phe	Asp	Arg
				405					410					415	
Phe	Phe	Arg	Asp	Pro	Asn	Gln	Thr	Gln	Ser	Gly	Ser	Gly	Leu	Gly	Leu
			420					425					430		
Ala	Ile	Val	Lys	Ala	Val	Thr	Gln	Gln	His	Asn	Gly	Arg	Val	Asn	Leu

435 440 445
 Ser Thr Ser Ala Glu Gly Gly Leu Met Val Thr Val Asp Phe Pro Asn
 450 455 460
 Pro Ala Phe Ala
 465

<210> 10101
 <211> 107
 <212> PRT
 <213> Enterobacter cloacae

<400> 10101
 Lys Arg Val Thr Phe Lys Cys Asn Lys Gln Arg Cys Phe Leu Met Arg
 1 5 10 15
 Gly Val Gly Gly Ser Lys Met Asn Thr Gly Ala Phe Ile His Asp Leu
 20 25 30
 Leu Asp Trp Ile Asp Asn Asn Leu Asp Ser Arg Leu Asp Ile Glu Thr
 35 40 45
 Val Ser Arg Arg Ala Gly Tyr Ser Lys Trp His Leu Gln Arg Leu Phe
 50 55 60
 Lys Glu His Thr Gly Ser Pro Leu Ala Glu Tyr Ile Arg Ala Gln Lys
 65 70 75 80
 Leu Gln Lys Ser Val Glu Arg Leu Ala His Ser His Glu Pro Ile Leu
 85 90 95
 Tyr Val Asp Leu Thr Thr Gly Lys Arg Ser Ala
 100 105

<210> 10102
 <211> 303
 <212> PRT
 <213> Enterobacter cloacae

<400> 10102
 His Gln Asp Pro Asn Phe Tyr Asn Ser Gly Arg Met Ser Thr Phe Lys
 1 5 10 15
 Pro Leu Lys Ala Leu Thr Ser Arg Arg Gln Val Leu Lys Ala Gly Leu
 20 25 30
 Ala Ala Leu Thr Leu Thr Gly Ile Ala Lys Gln Ala Gln Ala Lys Asp
 35 40 45
 Glu Ser Thr Leu Lys Thr Ser Asn Gly His Ser Lys Pro Lys Thr Lys
 50 55 60
 Lys Ala Gly Ala Lys Arg Leu Val Met Leu Asp Pro Gly His Gly Gly
 65 70 75 80
 Ile Asp Thr Gly Ala Ile Gly Arg Asn Gly Ser Lys Glu Lys His Val
 85 90 95
 Val Leu Ala Ile Ala Lys Asn Val Arg Ala Ile Leu Arg Ser Asn Gly
 100 105 110
 Ile Asp Ala Arg Leu Thr Arg Thr Gly Asp Thr Phe Ile Pro Leu Tyr
 115 120 125
 Asp Arg Val Glu Ile Ala His Lys His Gly Ala Asp Leu Phe Met Ser
 130 135 140
 Ile His Ala Asp Gly Phe Thr Asn Pro Ser Ala Ala Gly Ala Ser Val
 145 150 155 160
 Phe Ala Leu Ser Asn Arg Gly Ala Ser Ser Ala Met Ala Lys Tyr Leu
 165 170 175
 Ser Asp Arg Glu Asn Arg Ala Asp Glu Val Ala Gly Lys Lys Ala Thr
 180 185 190
 Asp Lys Asp His Leu Leu Gln Gln Val Leu Phe Asp Leu Val Gln Thr
 195 200 205
 Asp Thr Ile Lys Asn Ser Leu Thr Leu Gly Ser His Ile Leu Lys Arg
 210 215 220

Ile	Lys	Pro	Val	His	Arg	Leu	His	Ser	Lys	Ser	Thr	Glu	Gln	Ala	Ala
225					230					235					240
Phe	Val	Val	Leu	Lys	Ser	Pro	Ser	Ile	Pro	Ser	Val	Leu	Val	Glu	Thr
				245					250					255	
Ser	Phe	Ile	Thr	Asn	Pro	Glu	Glu	Glu	Arg	Leu	Leu	Gly	Thr	Thr	Ala
			260					265					270		
Phe	Arg	Gln	Lys	Ile	Ala	Asn	Ala	Ile	Ala	Ser	Gly	Val	Ile	Ser	Tyr
		275					280					285			
Phe	Asn	Trp	Phe	Asp	Asn	Gln	Lys	Ala	His	Ser	Arg	Lys	Arg		
	290					295					300				

<210> 10103

<211> 664

<212> PRT

<213> Enterobacter cloacae

<400> 10103

Thr	Met	Ser	Arg	Lys	Glu	Leu	Ala	Asn	Ala	Ile	Arg	Ala	Leu	Ser	Met
1				5					10					15	
Asp	Ala	Val	Gln	Lys	Ala	Asn	Ser	Gly	His	Pro	Gly	Ala	Pro	Met	Gly
			20					25					30		
Met	Ala	Asp	Ile	Ala	Glu	Val	Leu	Trp	Asn	Asp	Phe	Leu	Lys	His	Asn
		35					40					45			
Pro	Thr	Asp	Pro	Thr	Trp	Tyr	Asp	Arg	Asp	Arg	Phe	Ile	Leu	Ser	Asn
		50				55					60				
Gly	His	Ala	Ser	Met	Leu	Leu	Tyr	Ser	Leu	Leu	His	Leu	Ser	Gly	Tyr
65					70					75				80	
Asp	Leu	Pro	Leu	Glu	Leu	Lys	Asn	Phe	Arg	Gln	Leu	His	Ser	Lys	
				85				90					95		
Thr	Pro	Gly	His	Pro	Glu	Ile	Gly	Tyr	Thr	Pro	Gly	Val	Glu	Thr	Thr
			100					105					110		
Thr	Gly	Pro	Leu	Gly	Gln	Gly	Leu	Ala	Asn	Ala	Val	Gly	Leu	Ala	Ile
			115				120					125			
Ala	Glu	Arg	Thr	Leu	Ala	Ala	Gln	Phe	Asn	Gln	Pro	Asp	His	Glu	Ile
			130			135					140				
Val	Asp	His	Tyr	Thr	Tyr	Val	Phe	Met	Gly	Asp	Gly	Cys	Leu	Met	Glu
145					150					155				160	
Gly	Ile	Ser	His	Glu	Val	Cys	Ser	Leu	Ala	Gly	Thr	Leu	Gly	Leu	Gly
				165					170					175	
Lys	Leu	Ile	Gly	Phe	Tyr	Asp	His	Asn	Gly	Ile	Ser	Ile	Asp	Gly	Glu
			180					185					190		
Thr	Glu	Gly	Trp	Phe	Thr	Asp	Asp	Thr	Ala	Lys	Arg	Phe	Glu	Ala	Tyr
		195					200					205			
His	Trp	His	Val	Val	His	Glu	Ile	Asp	Gly	His	Asp	Pro	Glu	Ala	Val
	210					215					220				
Lys	Lys	Ala	Ile	Gln	Glu	Ala	Gln	Ser	Val	Lys	Asp	Lys	Pro	Ser	Leu
225					230					235					240
Ile	Ile	Cys	Arg	Thr	Thr	Ile	Gly	Phe	Gly	Ser	Pro	Asn	Lys	Ala	Gly
				245					250					255	
Lys	Glu	Glu	Ala	His	Gly	Ala	Ala	Leu	Gly	Glu	Glu	Glu	Val	Ala	Leu
			260					265					270		
Thr	Arg	Gln	Lys	Leu	Gly	Trp	Lys	His	Pro	Ala	Phe	Glu	Ile	Pro	Lys
		275					280					285			
Glu	Ile	Tyr	Lys	Ala	Trp	Asp	Ala	Arg	Glu	Thr	Gly	Glu	Lys	Ala	Gln
	290					295					300				
Gln	Ala	Trp	Asn	Glu	Lys	Phe	Ala	Ala	Tyr	Lys	Lys	Ala	Tyr	Pro	Asp
305					310					315					320
Leu	Ala	Ala	Glu	Phe	Thr	Arg	Arg	Met	Ser	Gly	Gly	Leu	Pro	Glu	Asp
			325						330					335	
Trp	Glu	Glu	Lys	Thr	Gln	Ala	Leu	Ile	Glu	Asn	Leu	Gln	Ser	Asn	Pro
			340					345					350		

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<210> 10104
<211> 565
<212> PRT
<213> Enterobacter cloacae
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<400> 10104															
Val	Thr	Val	Lys	Arg	Pro	Val	Ser	Gly	Ser	Leu	Ala	Arg	Ala	Phe	Phe
1			5						10					15	
Ser	Met	Ile	Val	Leu	Ser	Val	Leu	Ile	Ser	Ala	Ile	Ala	Leu	Val	Thr
		20						25					30		
Leu	Ala	Ser	Ser	Gln	Arg	Asp	Ala	Glu	Ala	Ile	Asn	Ile	Ala	Gly	Ser
		35					40					45			
Leu	Arg	Met	Gln	Ser	Tyr	Arg	Leu	Gly	Tyr	Glu	Met	Gln	Arg	Ala	Ser
	50					55					60				
Pro	Ser	Leu	Ala	Glu	His	Arg	Ala	Val	Trp	Gln	Lys	Thr	Leu	Ser	Ala
65					70					75					80
Pro	Ala	Leu	Gln	Lys	Leu	Asn	Arg	Trp	Tyr	Val	Pro	Glu	Asp	Val	Lys
			85						90					95	
Gln	Arg	Tyr	Gln	Gln	Leu	His	Leu	Gly	Trp	Gln	Glu	Met	Asp	Thr	Arg
		100						105					110		

Ile Ala Ser Gly Asp Thr Gly Trp Tyr Gln Asn His Ile Glu Asp Phe
 115 120 125
 Val Gly Arg Ile Asp Ala Phe Val Leu Ala Leu Gln His Tyr Thr Glu
 130 135 140
 His Lys Ile Gln Leu Val Ile Cys Met Ser Leu Thr Gly Gly Leu Gly
 145 150 155 160
 Ile Leu Leu Leu Ala Val Val Thr Leu Arg Arg Ile Arg Arg Gln Val
 165 170 175
 Val Leu Pro Leu Asn Asn Leu Val Ala Ala Ser Glu Arg Ile Glu Gln
 180 185 190
 Gly Gln Phe Asp Thr Pro Ala Pro Asp Thr Thr Leu Pro Asn Glu Leu
 195 200 205
 Gly Gln Leu Ser Arg Ala Phe Asn His Met Ser Ala Glu Leu His Thr
 210 215 220
 Leu Tyr Arg Ser Leu Glu His Ser Val Ala Glu Lys Thr Arg His Leu
 225 230 235 240
 Asn Glu Ala His Gln Gln Leu Glu Met Leu Phe Lys Cys Ser Gln Ala
 245 250 255
 Leu Asn Thr Gly Gln Ile Asp Ser His Cys Phe Arg His Ile Leu Gln
 260 265 270
 Ile Val His Asp Tyr Thr Gln Met Asn Tyr Leu Gln Leu Arg Thr Ser
 275 280 285
 Asp Asp Trp Gln Leu Tyr Glu Gly Leu Glu Thr Pro Gly Glu Lys Met
 290 295 300
 His Asn Leu Pro Val Leu Met Gln Asp Thr Leu Tyr Gly Glu Leu Arg
 305 310 315 320
 Trp Gln Ser Ala Thr Gly Asp Val Pro Leu Pro Leu Met Glu Ser Val
 325 330 335
 Ala Thr Met Leu Gly Arg Gly Leu Tyr Phe Asn Gln Ala Gln Lys His
 340 345 350
 Tyr Gln Gln Leu Leu Leu Met Glu Glu Arg Ala Thr Ile Ala Arg Glu
 355 360 365
 Leu His Asp Ser Leu Ala Gln Val Leu Ser Tyr Leu Arg Ile Gln Leu
 370 375 380
 Thr Leu Leu Lys His Ala Val Pro Gly Asp Asn Ala Pro Ala Gln Ala
 385 390 395 400
 Ile Ile Thr Asp Phe Ser Arg Glu Leu Asn Asn Ala Trp His Gln Leu
 405 410 415
 Arg Glu Leu Leu Thr Thr Phe Arg Leu Thr Leu Asn His Ala Asn Leu
 420 425 430
 Pro Ala Ala Leu Gln Glu Ser Leu Asp Gly Leu Gln Ser Gln Thr Ser
 435 440 445
 Ala Lys Leu Val Leu Asp Cys Arg Leu Ser Ser Leu Ala Leu Asp Ala
 450 455 460
 Gln Lys Gln Val His Leu Leu Gln Ile Val Arg Glu Ala Val Leu Asn
 465 470 475 480
 Ala Ile Lys His Ala Asp Ala Ser Glu Ile Val Val Ser Cys Val Thr
 485 490 495
 Thr Ala Asp Gly Thr His Thr Val Thr Ile Arg Asp Asn Gly Ile Gly
 500 505 510
 Ile Gly Asp Ala Ser Glu Pro Pro Gly His Tyr Gly Leu Asn Ile Met
 515 520 525
 Arg Glu Arg Ala Gly Arg Leu Gly Gly Thr Leu His Phe Ser Gln Pro
 530 535 540
 Pro Gln Gly Gly Thr Gln Val Ser Val Thr Phe Arg Thr Pro Ala Ala
 545 550 555 560
 Gln Ala Glu Lys
 565

<210> 10105

<211> 1047

<212> PRT

<213> Enterobacter cloacae

<400> 10105

Arg	Ala	Ala	Lys	Arg	Gly	His	Thr	Leu	Met	Ala	Asn	Phe	Phe	Ile	Asp
1				5					10					15	
Arg	Pro	Ile	Phe	Ala	Trp	Val	Leu	Ala	Ile	Leu	Leu	Cys	Leu	Thr	Gly
			20					25					30		
Val	Leu	Ala	Ile	Thr	Ser	Leu	Pro	Val	Glu	Gln	Tyr	Pro	Asp	Leu	Ala
		35					40					45			
Pro	Pro	Asn	Val	Arg	Ile	Thr	Ala	Asn	Tyr	Pro	Gly	Ala	Ser	Ala	Gln
	50					55					60				
Thr	Leu	Glu	Asn	Thr	Val	Thr	Gln	Val	Ile	Glu	Gln	Asn	Met	Thr	Gly
65					70					75					80
Leu	Asp	Asn	Leu	Met	Tyr	Met	Ser	Ser	Gln	Ser	Ser	Ala	Thr	Gly	Gln
				85					90					95	
Ala	Thr	Val	Thr	Leu	Ser	Phe	Thr	Ala	Gly	Thr	Asp	Pro	Asp	Glu	Ala
			100					105					110		
Val	Gln	Gln	Val	Gln	Asn	Gln	Leu	Gln	Ser	Ala	Leu	Arg	Lys	Leu	Pro
	115						120					125			
Gln	Ala	Val	Gln	Asn	Gln	Gly	Val	Thr	Val	Arg	Lys	Thr	Gly	Asp	Thr
	130					135					140				
Asn	Ile	Leu	Thr	Ile	Ala	Phe	Val	Ser	Thr	Asp	Gly	Ser	Met	Asp	Lys
145					150					155					160
Gln	Asp	Ile	Ala	Asp	Tyr	Val	Ala	Ser	Asn	Ile	Gln	Asp	Pro	Leu	Ser
				165					170					175	
Arg	Ile	Asn	Gly	Val	Gly	Asp	Ile	Asp	Ala	Tyr	Gly	Ser	Gln	Tyr	Ser
			180					185					190		
Met	Arg	Ile	Trp	Leu	Asp	Pro	Asn	Lys	Leu	Asn	Ser	Val	Gln	Met	Thr
		195				200						205			
Ala	Lys	Asp	Val	Thr	Asp	Ala	Ile	Glu	Ser	Gln	Asn	Ala	Gln	Ile	Ala
	210					215					220				
Val	Gly	Gln	Leu	Gly	Gly	Thr	Pro	Ser	Val	Asp	Asn	Gln	Ala	Leu	Asn
225				230						235					240
Ala	Thr	Ile	Asn	Ser	Gln	Ser	Leu	Leu	Gln	Thr	Pro	Asp	Gln	Phe	Arg
				245					250					255	
Asn	Ile	Thr	Leu	Arg	Val	Asn	Gln	Asp	Gly	Ser	Glu	Val	Arg	Leu	Gly
			260					265					270		
Asp	Val	Ala	Thr	Val	Glu	Met	Gly	Ala	Glu	Lys	Tyr	Asp	Tyr	Leu	Ser
		275					280					285			
Arg	Phe	Asn	Gly	Asn	Ala	Ala	Ser	Gly	Leu	Gly	Val	Lys	Leu	Ala	Ser
	290					295						300			
Gly	Ala	Asn	Glu	Met	Ala	Thr	Ala	Gln	Arg	Val	Leu	Glu	Arg	Leu	Asp
305					310					315					320
Glu	Leu	Ser	His	Tyr	Phe	Pro	His	Gly	Leu	Glu	Tyr	Lys	Val	Ala	Tyr
				325				330						335	
Glu	Thr	Thr	Ser	Phe	Val	Lys	Ala	Ser	Ile	Glu	Asp	Val	Val	Lys	Thr
			340					345					350		
Leu	Leu	Glu	Ala	Ile	Ala	Leu	Val	Phe	Leu	Val	Met	Tyr	Leu	Phe	Leu
		355					360					365			
Gln	Asn	Phe	Arg	Ala	Thr	Leu	Ile	Pro	Thr	Ile	Ala	Val	Pro	Val	Val
	370					375					380				
Leu	Leu	Gly	Thr	Phe	Ala	Val	Leu	Tyr	Ala	Phe	Gly	Tyr	Ser	Ile	Asn
385					390					395					400
Thr	Leu	Thr	Met	Phe	Ala	Met	Val	Leu	Ala	Ile	Gly	Leu	Leu	Val	Asp
				405					410					415	
Asp	Ala	Ile	Val	Val	Glu	Asn	Val	Glu	Arg	Ile	Met	Ser	Glu	Glu	
			420				425					430			
Gly	Leu	Ser	Pro	Arg	Glu	Ala	Thr	Arg	Lys	Ser	Met	Gly	Gln	Ile	Gln
	435					440						445			
Gly	Ala	Leu	Val	Gly	Ile	Ala	Met	Val	Leu	Ser	Ala	Val	Phe	Ile	Pro

450	455	460
Met Ala Phe Phe Gly Gly Thr Thr Gly Ala Ile Tyr Arg Gln Phe Ser		
465	470	475
Ile Thr Ile Val Ser Ala Met Val Leu Ser Val Leu Val Ala Met Ile		
	485	490
Leu Thr Pro Ala Leu Cys Ala Thr Leu Leu Lys Pro Leu His Lys Gly		
	500	505
Glu His His Gly Gln Lys Gly Phe Phe Gly Trp Phe Asn Arg Met Phe		
	515	520
Asn Arg Asn Ala Ala Arg Tyr Glu Ala Gly Val Gly Lys Val Leu His		
	530	535
Arg Ser Val Arg Trp Met Val Val Tyr Val Leu Leu Gly Gly Met		
545	550	555
Val Phe Leu Phe Leu Arg Leu Pro Thr Ser Phe Leu Pro Leu Glu Asp		
	565	570
Arg Gly Met Phe Ile Thr Ser Val Gln Leu Pro Ser Gly Ser Thr Gln		
	580	585
Gln Gln Thr Leu Lys Val Val Gln Lys Val Glu Asn Tyr Phe His Thr		
	595	600
Gln Glu Lys Asp Asn Val Val Ser Val Phe Ser Thr Val Gly Ser Gly		
	610	615
Pro Gly Gly Asn Gly Gln Asn Val Ala Arg Met Phe Val Arg Leu Lys		
625	630	635
Asp Trp Asp Gln Arg Asp Ser Asp Thr Gly Ser Ser Phe Ala Ile Ile		
	645	650
Glu Arg Ala Thr Lys Ala Phe Asn Lys Ile Lys Glu Ala Arg Val Phe		
	660	665
Ala Ser Ser Pro Pro Ala Ile Ser Gly Leu Gly Ser Ser Ala Gly Phe		
	675	680
Asp Met Glu Leu Gln Asp His Ala Gly Ala Gly His Asp Ala Leu Met		
	690	695
Ala Ala Arg Asp Lys Leu Leu Glu Leu Ala Gly Lys Asp Pro Gln Leu		
705	710	715
Thr Arg Val Arg His Asn Gly Leu Asp Asp Ser Pro Gln Leu Gln Val		
	725	730
Asp Ile Asp Gln Arg Lys Ala Gln Ala Leu Gly Val Ser Ile Asp Asp		
	740	745
Ile Asn Asp Thr Leu Gln Thr Ala Trp Gly Ser Ser Tyr Val Asn Asp		
	755	760
Phe Met Asp Arg Gly Arg Val Lys Lys Val Tyr Val Gln Ser Ala Ala		
	770	775
Lys Tyr Arg Met Leu Pro Asp Asp Ile Asn Arg Trp Tyr Val Arg Asn		
785	790	795
Asn Thr Gly Gly Met Val Pro Phe Ser Ala Phe Ala Thr Ser Arg Trp		
	805	810
Glu Thr Gly Ser Pro Arg Leu Glu Arg Tyr Asn Gly Tyr Ser Ala Leu		
	820	825
Glu Ile Val Gly Glu Ala Ala Pro Gly Val Ser Thr Gly Thr Ala Met		
	835	840
Asp Ile Met Glu Lys Leu Val Gln Gln Leu Pro Thr Gly Phe Gly Leu		
	850	855
Glu Trp Thr Ala Met Ser Tyr Gln Glu Arg Leu Ser Gly Ala Gln Ala		
865	870	875
Pro Ala Leu Tyr Ala Leu Ser Leu Leu Val Val Phe Leu Cys Leu Ala		
	885	890
Ala Leu Tyr Glu Ser Trp Ser Val Pro Phe Ser Val Met Leu Val Val		
	900	905
Pro Leu Gly Val Ile Gly Ala Leu Leu Ala Thr Trp Met Arg Gly Leu		
	915	920
Glu Asn Asp Val Tyr Phe Gln Val Gly Leu Leu Thr Val Ile Gly Leu		
	930	935
		940

Ser Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Asn Glu Met Asn
 945 950 955 960
 Ala Lys Gly His Glu Leu Met Ala Ala Thr Leu His Ala Cys Arg Gln
 965 970 975
 Arg Leu Arg Pro Ile Leu Met Thr Ser Leu Ala Phe Val Phe Gly Val
 980 985 990
 Leu Pro Met Ala Thr Ser Ser Gly Ala Gly Ser Ser Ser Gln His Ala
 995 1000 1005
 Val Gly Thr Gly Val Met Gly Gly Met Ile Ser Ala Thr Ile Leu Ala
 1010 1015 1020
 Ile Tyr Phe Val Pro Leu Phe Phe Val Leu Ile Arg Arg Arg Phe Pro
 1025 1030 1035 1040
 Leu Lys Asp Lys Pro Glu
 1045

<210> 10106

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10106

Val Met Asn Pro Leu Lys Ala Gly Asp Ile Ala Pro Lys Phe Ser Leu
 1 5 10 15
 Pro Asp Gln Asp Gly Glu Gln Val Asn Leu Thr Asp Phe Gln Gly Gln
 20 25 30
 Arg Val Leu Val Tyr Phe Tyr Pro Lys Ala Met Thr Pro Gly Cys Thr
 35 40 45
 Val Gln Ala Cys Gly Leu Arg Asp Asn Met Asp Glu Leu Lys Lys Val
 50 55 60
 Gly Val Glu Val Leu Gly Ile Ser Thr Asp Lys Pro Glu Lys Leu Ser
 65 70 75 80
 Arg Phe Ala Glu Lys Glu Leu Leu Asn Phe Thr Leu Leu Ser Asp Glu
 85 90 95
 Asp His Gln Val Cys Glu Gln Phe Gly Val Trp Gly Glu Lys Ser Phe
 100 105 110
 Met Gly Lys Thr Tyr Asp Gly Ile His Arg Ile Ser Phe Leu Ile Gly
 115 120 125
 Ala Asp Gly Lys Val Glu His Val Phe Asp Asp Phe Lys Thr Ser Asn
 130 135 140
 His His Asp Val Val Leu Lys Trp Leu Lys Glu Asn Ala
 145 150 155

<210> 10107

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 10107

Leu Ser Gln Lys Arg Leu Ser Phe Leu Phe His Cys Gln Val Ser Gln
 1 5 10 15
 Asn Pro Asp Glu Trp Asp Phe Leu His Leu Leu Thr Arg Leu His Ser
 20 25 30
 Gln Ser Ser Gly Asp Glu Arg Tyr Ala Gly Ser Ser Val Lys Leu Ala
 35 40 45
 His Pro Lys Tyr Arg Thr Val Val Met Phe Arg Gln Leu Arg Lys Thr
 50 55 60
 Leu Val Ala Thr Leu Ile Ala Ala Val Thr Val Gly Gln Val Leu Pro
 65 70 75 80
 Ala Phe Ala Asp Ser Ser Asp Ser Leu Pro Asp Met Gly Thr Thr Ala
 85 90 95
 Gly Ser Thr Leu Ser Ile Gly Gln Glu Met Gln Met Gly Asp Tyr Tyr

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<210> 10108
<211> 469
<212> PRT
<213> Enterobacter cloacae
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<210> 10109
 <211> 320
 <212> PRT
 <213> Enterobacter cloacae

<400> 10109
 Ser Met Trp Gly Ile Ile Ala Thr Trp Arg Met Ala Leu Glu Gly Val
 1 5 10 15
 Thr Glu Ser Ala Ser Ala Leu Ala Ala Gly Lys Pro Val Ala Ala Ala
 20 25 30
 Val Val Asp Ala Val Ala Ala Val Glu Asp Phe Pro Leu Tyr Lys Ser
 35 40 45
 Val Gly Tyr Gly Gly Leu Pro Thr Glu Asn Gly Glu Val Glu Leu Asp
 50 55 60
 Ala Ala Tyr Met Asp Gly Asp Thr Leu Ala Phe Gly Ala Val Gly Asn
 65 70 75 80
 Leu Val Asp Ile Ala Asn Pro Val Arg Val Ala His Ala Leu Ser Arg
 85 90 95
 Gln Arg Tyr Asn Ser Leu Leu Val Gly Gln Gly Ala Arg Glu Trp Ala
 100 105 110
 Leu Ser Gln Gly Phe Ala Asp Lys Thr Met Leu Thr Asp Arg Ala Met
 115 120 125
 Gln His Tyr Arg Lys Arg Cys Arg Glu Thr Leu Asp Lys Gly Leu Ser
 130 135 140
 Pro Tyr Asp Gly His Asp Thr Val Gly Ile Ile Gly Leu Asp Lys Gln
 145 150 155 160
 Gly Ser Met Ser Val Ala Thr Ser Thr Ser Gly Leu Phe Met Lys Lys
 165 170 175
 Arg Gly Arg Leu Gly Asp Ser Pro Ile Ile Gly Ser Gly Phe Tyr Cys
 180 185 190
 Asp Ser Glu Thr Gly Ala Ala Thr Ala Thr Gly Val Gly Glu Asp Leu
 195 200 205
 Met Lys Gly Cys Thr Ser Tyr Glu Ile Val Arg Arg Met Ala Gln Gly
 210 215 220
 Met Thr Pro Gln Gln Ala Ala Asp Ser Val Val Phe Glu Leu Glu Asp
 225 230 235 240
 Lys Leu Met Ser Arg Phe Gly Arg Ala Gly Asp Leu Ser Val Val Cys
 245 250 255
 Met Asn Ser Lys Gly Glu Phe Gly Ala Thr Asn Ile Lys Thr Phe
 260 265 270
 Ser Phe Val Val Ala Thr Ala Arg Gln Pro Leu Thr Val Phe Arg Thr
 275 280 285
 Glu Arg Leu Arg Glu Lys Thr His Tyr His Ala Val Asp Asp Glu Trp
 290 295 300
 Met Gln Ala Tyr Ala Ala Arg Ile Arg Ala Pro Ile Glu Glu Leu
 305 310 315 320

<210> 10110
 <211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 10110
 Tyr Arg Phe Phe Phe Ser Cys Ser Ser Cys Thr Val Asp Thr Val Thr
 1 5 10 15
 Asn Val Lys Ile Leu Leu Ile Glu Asp Asp Leu Asp Leu Gly Asn Gly
 20 25 30
 Val Arg Ile Ala Leu Ala Asp Gln Gly Phe Asp Val Ile Trp Val Arg
 35 40 45
 Arg Lys Glu Asp Ala Leu His Gln Leu Gly Ile Cys Val Pro Glu Leu

50	55	60
Ile Leu Leu Asp Leu Gly Leu Pro Asp Gly Asp Gly Met Ser Leu Met		
65	70	75
Thr Arg Leu Arg Gln Leu Lys Gly Val Pro Val Ile Ile Leu Thr		80
	85	90
Ala Arg Gly Thr Leu Gln Asp Arg Leu Cys Gly Leu Asp Ala Gly Ala		95
	100	105
Asp Asp Tyr Leu Val Lys Pro Phe Val Leu Ala Glu Leu Leu Ala Arg		110
	115	120
Val Arg Ala Leu Ala Arg Arg Ser Tyr Gly Phe Glu Asn Glu Ala Ile		125
	130	135
Glu Ile Arg Gly Leu Ser Leu His Ile Pro Thr Arg Arg Val Thr Val		140
	145	150
Ser Ala Arg His Val Glu Leu Thr Ala Ser Glu Tyr Ala Leu Leu Glu		155
	165	170
Thr Leu Met Leu Arg Ala Asp Arg Val Leu Thr Arg Arg Tyr Leu Glu		175
	180	185
Glu Arg Leu Phe Gly Thr Lys Glu Asn Leu Ser Asn Ala Leu Asp Val		190
	195	200
His Met Gly Asn Leu Arg Arg Lys Ile Gly Asp Gly Phe Val Arg Thr		205
	210	215
Val Arg Gly Val Gly Tyr Val Ile Asp Thr Val Pro Val Gln Lys Ala		220
	225	230
Ala Gly		235
		240

<210> 10111

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 10111

Ile Ser Pro Arg Phe Ser Ala Phe Ile Ser Leu Thr Ser Leu Ile Met	
1	5
Gly Ile Ser Phe Leu Asp Ser Arg Glu Gln Gly Arg Leu Ser Ser Phe	
	20
Ile Arg His Lys Asp Leu Gln Lys Met Asn Asn His Phe Arg Cys Ile	
	35
Gly Ile Val Gly His Pro Arg His Pro Thr Ala Leu Thr Thr His Glu	
	50
Met Leu Tyr Arg Trp Leu Cys Gly Lys Gly Tyr Glu Val Met Val Glu	
65	70
Gln Gln Ile Ala Gln Glu Leu Gln Leu Lys Ser Val Arg Thr Gly Thr	
	85
Leu Ala Glu Ile Gly Gln Gln Ala Asp Leu Ala Val Val Val Gly Gly	
	100
Asp Gly Asn Met Leu Gly Ala Ala Arg Thr Leu Ala Arg Tyr Asp Ile	
	115
Lys Val Ile Gly Val Asn Arg Gly Asn Leu Gly Phe Leu Thr Asp Leu	
	130
Asp Pro Asp Asn Ala Gln Gln Gln Leu Ala Asp Val Leu Glu Gly His	
145	150
Tyr Ile Ser Glu Lys Arg Phe Leu Leu Glu Ala Gln Val Cys Gln Gln	
	165
Asp Cys Gln Lys Arg Ile Ser Thr Ala Ile Asn Glu Val Val Leu His	
	180
Pro Gly Lys Val Ala His Met Ile Glu Phe Glu Val Tyr Ile Asp Glu	
	195
Ile Phe Ala Phe Ser Gln Arg Ser Asp Gly Leu Ile Ile Ser Thr Pro	
	210
Thr Gly Ser Thr Ala Tyr Ser Leu Ser Ala Gly Gly Pro Ile Leu Thr	
	215
	220

225					230					235				240	
Pro	Ser	Leu	Asp	Ala	Ile	Thr	Leu	Val	Pro	Met	Phe	Pro	His	Thr	Leu
				245					250					255	
Ser	Ala	Arg	Pro	Leu	Val	Ile	Asn	Gly	Asp	Ser	Thr	Ile	Arg	Leu	Arg
			260					265					270		
Phe	Ser	His	Arg	Arg	Ser	Asp	Leu	Glu	Ile	Ser	Cys	Asp	Ser	Gln	Ile
		275					280					285			
Ala	Leu	Pro	Ile	Gln	Glu	Gly	Glu	Asp	Val	Leu	Ile	Arg	Arg	Cys	Asp
	290					295				300					
Tyr	His	Leu	Asn	Leu	Ile	His	Pro	Lys	Asp	Tyr	Ser	Tyr	Phe	Asn	Thr
305					310					315					320
Leu	Ser	Ser	Lys	Leu	Gly	Trp	Ser	Lys	Lys	Leu	Phe				
				325					330						

<210> 10112

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10112

Thr	Ser	Ser	Leu	Thr	Gly	Tyr	Asn	Pro	Leu	Ile	Leu	Lys	Arg	Phe	Lys
1				5					10					15	
Thr	Met	Phe	Gln	Ala	Leu	Leu	Arg	Arg	Arg	Glu	Ala	Arg	Leu	Phe	Phe
			20					25					30		
Ile	Ile	Ser	Ile	Leu	Phe	Phe	Ile	Cys	Ile	His	Ser	Ile	Asp	Ala	Phe
		35					40					45			
Leu	Ala	Pro	Met	Met	Ile	Asn	Gln	Gly	Ile	Glu	Pro	Gln	Ile	Met	Gly
	50					55				60					
Ile	Ile	Met	Gly	Ala	Ser	Gly	Leu	Ala	Thr	Leu	Leu	Ile	Arg	Phe	Pro
65					70					75					80
Leu	Gly	Ile	Ile	Ser	Asp	Val	Val	Lys	Ser	Arg	Arg	Ile	Phe	Ile	Gln
				85				90						95	
Ile	Gly	Leu	Leu	Leu	Pro	Ile	Ile	Ala	Trp	Pro	Ile	Ala	Trp	Leu	Glu
			100					105					110		
Pro	Asn	Ala	Ile	Thr	Leu	Tyr	Leu	Ala	Lys	Ala	Ala	Asp	Gly	Val	Thr
		115					120					125			
Ala	Ala	Thr	Trp	Val	Leu	Tyr	Asn	Ile	Leu	Phe	Met	Arg	Tyr	Phe	Gly
	130					135					140				
Arg	Asn	Glu	Ala	Pro	Ala	Ala	Val	Ala	Leu	Leu	Ala	Leu	Ala	Gly	Pro
145					150					155					160
Ile	Gly	Val	Phe	Leu	Gly	Asn	Cys	Ile	Gly	Ala	Val	Leu	Ile	His	Tyr
				165					170					175	
Phe	Ala	Asn	Asn	Ile	Ala	Phe	Phe	Val	Ser	Cys	Ile	Ser	Ala	Leu	Val
		180						185					190		
Ala	Leu	Ile	Leu	Thr	Thr	Arg	Ile	Gln	Asp	Val	His	Asp	Pro	Val	Gln
	195						200					205			
Ala	Pro	Thr	Leu	Lys	Ala	Cys	Ile	Thr	Gly	Ala	Arg	Gln	Gln	Leu	Ala
	210					215					220				
Asp	Arg	Ser	Val	Trp	Leu	Ile	Gly	Ile	Leu	Ala	Thr	Val	Val	Ile	Leu
225					230					235					240
Val	Pro	Phe	Ala	Thr	Arg	Asp	Thr	Leu	Thr	Pro	Val	Tyr	Ala	Glu	Gln
				245					250					255	
Leu	Gly	Ala	Arg	Ala	Gly	Ile	Leu	Ala	Leu	Leu	Gly	Asn	Ile	His	Leu
		260					265						270		
Leu	Phe	Tyr	Gly	Leu	Ala	Ile	Ala	Leu	Cys	Ser	Ser	Val	Phe	Tyr	Gln
	275						280					285			
Arg	Leu	Gly	Leu	Val	Lys	Thr	Ala	Val	Leu	Gly	Ile	Val	Leu	Gln	Val
	290					295					300				
Ile	Ser	Thr	Phe	Gly	Ile	Pro	Phe	Thr	Ser	Asn	Met	Tyr	Val	Ile	Tyr
305					310					315					320
Leu	Trp	Gln	Ala	Leu	Ala	Gly	Phe	Ser	Phe	Gly	Met	Ala	Phe	Ala	Ala

				325					330				335				
Phe	Met	Ser	Leu	Ser	Val	Val	Asn	Thr	Ser	Ser	Asp	Glu	Gln	Ser	Thr		
			340					345					350				
Arg	Met	Gly	Leu	Phe	Gln	Thr	Ile	Tyr	Ser	Cys	Gly	Met	Phe	Val	Gly		
		355					360					365					
Pro	Val	Met	Met	Gly	Val	Met	Met	Gln	His	Ile	Asn	Leu	Ser	Ser	Gly		
		370				375					380						
Tyr	Ile	Leu	Ile	Ala	Ala	Leu	Ser	Val	Val	Ala	Ala	Ile	Ala	Thr	Pro		
385					390					395					400		
Leu	Ser	Ala	Arg	Trp	Val	Tyr	Ala	Arg	Lys	Thr	Gln	Thr	Ser	Ala	Gln		
			405					410						415			
Leu	Leu	Lys	Asn	Gly	Ala	Tyr	Ala	Ala	Ala	Pro	Asp	Gln					
			420					425					430				

<210> 10113

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 10113

Ile	Pro	Phe	Pro	Gly	Ser	Pro	Gly	Gly	Gln	Leu	Thr	Ser	Glu	Lys	Ser		
1			5					10					15				
Lys	Glu	Lys	Arg	Val	Ser	Trp	Lys	Leu	Lys	Thr	Gly	Lys	Ser	Thr	Glu		
			20				25					30					
Glu	Arg	Gln	Gln	Ala	Asn	Gln	Gln	Ile	Arg	Glu	Thr	Val	Glu	Gln	Ile		
		35				40				45							
Leu	Ala	Asp	Ile	Glu	Lys	Arg	Gly	Asn	Lys	Ala	Ile	Arg	Glu	Leu	Ser		
		50			55				60								
Ile	Lys	Phe	Asp	Arg	Tyr	Asp	Arg	Gln	Asp	Tyr	Arg	Leu	Thr	Ser	Ala		
65				70					75						80		
Glu	Ile	Asp	Arg	Cys	Ile	Lys	Gln	Leu	Ser	Arg	Gln	Asp	Ile	Gln	Asp		
			85				90						95				
Ile	Glu	Phe	Ala	Gln	Gln	Gln	Val	Ala	Asn	Phe	Ala	Arg	Ala	Gln	Lys		
			100				105						110				
Glu	Cys	Leu	Arg	Asp	Leu	Glu	Ile	Glu	Thr	Arg	Pro	Gly	Val	Ile	Leu		
		115				120					125						
Gly	His	Lys	Asn	Ile	Pro	Ile	Asn	Ala	Val	Gly	Cys	Tyr	Val	Pro	Gly		
		130			135					140							
Gly	Lys	Tyr	Pro	Leu	Leu	Ala	Ser	Ala	His	Met	Ser	Ile	Ile	Thr	Ala		
			150						155						160		
Ser	Val	Ala	Gly	Cys	Ser	Arg	Ile	Ile	Ser	Cys	Ala	Pro	Pro	Phe	Asn		
			165					170						175			
Gly	Gln	Pro	Ala	Pro	Ala	Ile	Val	Ala	Ala	Gln	Lys	Met	Ala	Gly	Ala		
			180				185						190				
Thr	Glu	Ile	Tyr	Ala	Leu	Gly	Gly	Ile	Gln	Ala	Ile	Gly	Ala	Met	Ala		
		195				200						205					
Leu	Gly	Thr	Asp	Ser	Leu	Ala	Pro	Val	Asp	Met	Leu	Val	Gly	Pro	Gly		
		210			215						220						
Asn	Ala	Phe	Val	Ala	Glu	Ala	Lys	Arg	Gln	Leu	Phe	Gly	Arg	Val	Gly		
225				230					235						240		
Ile	Asp	Leu	Phe	Ala	Gly	Pro	Thr	Glu	Thr	Leu	Val	Ile	Ala	Asp	Asp		
			245					250						255			
Thr	Val	Asp	Ala	Glu	Met	Cys	Ala	Thr	Asp	Leu	Leu	Gly	Gln	Ala	Glu		
			260				265						270				
His	Gly	Val	Thr	Thr	Pro	Ala	Ile	Leu	Leu	Thr	Asn	Ser	Leu	Gln	Leu		
		275				280						285					
Ala	Lys	Glu	Thr	Leu	Ser	Glu	Val	Glu	Arg	Leu	Leu	Glu	Lys	Leu	Pro		
		290				295					300						
Thr	Ala	Asp	Ile	Ala	Arg	Gln	Ser	Trp	Gln	Asp	Tyr	Gly	Glu	Ile	Ile		
305				310					315						320		
Val	Cys	Asp	Ser	His	Glu	Glu	Met	Leu	Leu	Glu	Ala	Asp	Arg	Ile	Ala		

				325					330					335			
Ser	Glu	His	Val	Gln	Val	Met	Thr	Asp	Arg	Asp	Asp	Trp	Phe	Leu	Ala		
			340					345					350				
Asn	Leu	Thr	Asn	Tyr	Gly	Ala	Leu	Phe	Leu	Gly	Pro	Arg	Thr	Asn	Val		
		355					360					365					
Ala	Tyr	Gly	Asp	Lys	Val	Ile	Gly	Thr	Asn	His	Thr	Leu	Pro	Thr	Gln		
	370					375					380						
Lys	Ala	Ala	Arg	Tyr	Thr	Gly	Gly	Leu	Trp	Val	Gly	Lys	Phe	Met	Lys		
385					390					395					400		
Thr	Cys	Thr	Phe	Gln	Lys	Val	Leu	Ser	Asp	Glu	Ala	Thr	Ala	Glu	Ile		
			405						410					415			
Gly	Ser	Tyr	Cys	Ser	Arg	Leu	Ser	Leu	Leu	Glu	Gly	Phe	Ala	Gly	His		
			420					425					430				
Ala	Glu	Gln	Ala	Asn	Ile	Arg	Val	Arg	Arg	Tyr	Gly	Gln	Thr	Glu	Val		
		435				440						445					
Pro	Tyr	Ala	Thr	Pro	Ala	Pro	Val	Arg	Glu	Lys	Val						
	450					455					460						

<210> 10114

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 10114

Ala	Met	Thr	Leu	Leu	Gln	Thr	Pro	Ser	Phe	Thr	Leu	His	Gly	Lys	Arg		
1				5					10					15			
Ala	Leu	Val	Thr	Gly	Gly	Ser	Arg	Gly	Ile	Gly	Phe	Ala	Ala	Ala	Val		
		20						25					30				
Ala	Leu	Ala	Gln	Ala	Gly	Ala	Glu	Val	Trp	Ile	Ala	Ala	Arg	Gly	Arg		
	35						40					45					
Glu	Ala	Leu	Ala	His	Ala	Ala	Gly	Leu	Ala	Ala	Glu	His	Ser	Leu	Ala		
	50					55					60						
Phe	His	Pro	Leu	Glu	Leu	Asp	Ile	Thr	Asp	Ala	Gln	Glu	Val	Glu	Arg		
65				70					75					80			
Val	Leu	Ala	Thr	Leu	Pro	Thr	Pro	Asp	Ile	Leu	Val	Asn	Ser	Ala	Gly		
			85					90					95				
Leu	Ala	Arg	His	Gln	Pro	Phe	Leu	Glu	Val	Asn	Glu	Glu	Asn	Phe	Asp		
		100						105					110				
Ala	Val	Met	Ala	Leu	Asn	Leu	Arg	Ala	Thr	Phe	Phe	Ile	Ser	Gln	His		
		115					120					125					
Val	Ala	Arg	Arg	Met	Arg	Ala	Gly	Gly	Lys	Gly	Gly	Ser	Ile	Ile	His		
	130					135					140						
Ile	Ser	Ser	Gln	Met	Gly	His	Val	Gly	Gly	Pro	Glu	Arg	Ser	Val	Tyr		
145				150						155				160			
Cys	Ala	Ser	Lys	Phe	Ala	Leu	Glu	Gly	Leu	Thr	Arg	Thr	Met	Ala	Leu		
			165					170					175				
Glu	Leu	Gly	Asp	Ala	Gly	Ile	Arg	Val	Asn	Thr	Leu	Cys	Pro	Thr	Phe		
		180						185					190				
Ile	Glu	Thr	Asp	Leu	Thr	Arg	Ser	Ser	Leu	Ala	Asp	Pro	Ala	Phe	Arg		
		195					200					205					
Arg	Tyr	Val	Leu	Asp	Asn	Ile	Lys	Leu	Arg	Arg	Pro	Gly	Arg	Leu	Glu		
	210					215					220						
Asp	Ile	Met	Gly	Pro	Val	Val	Phe	Leu	Ala	Ser	Asp	Ala	Ala	Gly	Leu		
225				230						235				240			
Ile	Thr	Gly	Ser	Ala	Leu	Met	Val	Asp	Gly	Gly	Trp	Thr	Ala	Thr			
			245					250						255			

<210> 10115

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10115

Thr Met Lys Ile Asp Leu Asn Leu Leu Pro Leu Phe Leu Ala Val Ala
 1 5 10 15
 Glu Glu Arg Ser Phe Ser Ala Ala Ala Gly Arg Leu Gly Ile Thr Arg
 20 25 30
 Ser Ala Val Ser Gln Gly Ile Arg Arg Leu Glu Asp Gly Phe Gln Thr
 35 40 45
 Leu Leu Val Met Arg Thr Thr Arg Ser Val Arg Leu Thr Glu Ala Gly
 50 55 60
 Glu Arg Leu His Lys Ser Leu Leu Gly Pro Ile Ala Asn Ile Glu Ala
 65 70 75 80
 Ala Phe Asp Asp Val Thr Ser Asp Ser Met Pro Arg Gly Gln Leu Arg
 85 90 95
 Ile Ala Val Thr Ser Ile Ala Glu Ala Phe Leu Ser Gly Pro Leu Leu
 100 105 110
 Ala Ser Phe Thr Ala Ala His Pro Ala Val Ser Leu Asp Val Phe Val
 115 120 125
 Ser Asp Glu Glu Phe Asp Ile Val Ala Ala Gly Tyr Asp Ala Gly Val
 130 135 140
 Arg Leu Gly Glu Val Ile Glu Lys Asp Met Ile Ala Ile Pro Leu Thr
 145 150 155 160
 Gly Gln Gln Arg Glu Arg Val Val Ala Ser Pro Ser Tyr Leu Ala Thr
 165 170 175
 His Ser Ala Pro Ala His Pro Arg Glu Leu Val Ala His Arg Cys Ile
 180 185 190
 Gly Trp Arg Pro Ser Pro Asp Val Ala Pro Tyr Arg Trp Glu Phe Glu
 195 200 205
 Glu Ala Gly Val Pro Phe Asp Val Ala Ile Glu Pro Gln Ile Thr Thr
 210 215 220
 Asn Asp Leu Arg Leu Met Leu Ser Leu Ala Leu Ala Gly Gly Gly Ile
 225 230 235 240
 Thr Phe Ala Thr Glu Asp Thr Phe Thr Pro Tyr Ile Glu Ser Gly Gln
 245 250 255
 Leu Val Ser Leu Leu Asp Ala Phe Leu Pro Ser Phe Pro Gly Phe Tyr
 260 265 270
 Leu Tyr Phe Pro Gln Arg His Asn Met Ala Pro Lys Leu Arg Ala Leu
 275 280 285
 Ile Glu His Ile Arg Gln Trp Arg Gln Leu Pro Ala Thr Gln Pro Thr
 290 295 300
 Gln Arg
 305

<210> 10116

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10116

Thr Gly Ser Ile Arg Ser Pro Ser Ser Arg Ala Met Arg Pro Val Thr
 1 5 10 15
 Pro Ala His His Gln Pro Ala Leu Pro Leu Pro Ser Ile Pro Pro Arg
 20 25 30
 His Gln Arg Pro Pro Leu Thr Pro Ser Pro Ile Thr Trp Gly Pro Cys
 35 40 45
 Ser Phe Arg Leu Thr Ala Gly Thr Pro Pro Thr Thr Arg Cys Arg Ser
 50 55 60
 Cys Arg Glu Pro His Arg Thr Ala Pro Pro Ser Arg Ser Met Thr Glu
 65 70 75 80
 Pro Pro Cys Ser Ala Arg Arg Cys Ser Thr Ala Ala Ala Ala Gly Ala
 85 90 95

Leu Arg Gln Pro Arg Arg
100

<210> 10117

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10117

Pro Val Ala Pro Lys Arg Ala Ala Pro Ser Pro Ser Val Trp Arg Thr
1 5 10 15
Ile Gln Arg Ser Pro Pro Arg Gln Thr Ala Thr Asp Pro Gly Ala Thr
20 25 30
Pro Ser Ser Ile Asn Arg Arg Lys Ala Arg Arg Cys Lys Ser Pro Pro
35 40 45
Pro Met Arg Gln Gly Thr Ser Arg Cys Pro Ala Gln Pro Leu Arg Arg
50 55 60
Trp Cys Arg Ser Leu Pro Ala Pro Thr Leu Lys Ser Trp Arg
65 70 75

<210> 10118

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 10118

Gly Gln Asp Met Gly Lys Lys Met Pro Tyr Trp Trp Leu Ser Cys Cys
1 5 10 15
Leu Ile Ser Val Pro Ala Ile Ala Ala Asn Pro Ala Ala Met Ile Asn
20 25 30
Thr Gly Gln Leu Ser Glu Thr Gln Glu Leu Pro Ser Leu Asn Gly Arg
35 40 45
Val Ala Pro Val Ala Ser Lys Ala Ala Pro Gly Thr Leu Gln Leu Asn
50 55 60
Glu Ala Val Asn Arg Ala Val Thr Trp His Pro Ala Ile Ser Glu Ala
65 70 75 80
Val Gly Lys Leu Tyr Gln Gln Ser Glu Asn Val Asp Val Ala Lys Ser
85 90 95
Lys Tyr Tyr Pro Gln Ile Asn Ala Gly Met Asp Asn Gly Tyr Ser His
100 105 110
Asp Gly Asp Asp Asn Gly Phe Thr Pro Ser Leu Val Leu Ser Leu Ser
115 120 125
Gln Met Leu Tyr Asp Phe Gly Lys Val Ala Ser Gln Val Arg Ala Glu
130 135 140
Asn Ala Gly Val Ala Gln Gln Gln Ala Asn Val Leu Val Ser Ile Asp
145 150 155 160
Thr Ile Ala His Asp Thr Ala Ile Ala Met Val Gln Val Gln Thr Trp
165 170 175
Gln Gln Met Val Glu Thr Ala Lys Glu Gln Leu Asp Ala Leu Ser Ser
180 185 190
Ile Gly Thr Leu Thr Lys Gln Arg Asn Asp Glu Gly Ala Thr Ser Leu
195 200 205
Ser Asp Val Val Gln Thr Asp Ala Arg Ile Glu Gly Ala Arg Ala Gln
210 215 220
Leu Met Gln Tyr Gln Ala Ser Leu Asp Ser Ser Arg Ala Thr Leu Met
225 230 235 240
Ser Leu Leu Gly Trp Asp Ser Leu Asn Ala Val Ser Asn Asp Phe Pro
245 250 255
Gln Ser Leu Ala Arg Ser Cys Asp Ile Ala Glu Pro Asp Asp Arg Leu
260 265 270
Val Pro Ser Val Leu Ala Ala Trp Ala Gln Ala Asn Val Ala Gln Ala

275	280	285
Asn Leu Asp Tyr Ala Asn Ala Gln Met Thr Pro Thr Val Ser Leu Glu		
290	295	300
Pro Glu Val Arg His Tyr Leu Asn Asp Arg Tyr Ala Gly Asn Glu Thr		
305	310	315
Arg Asp Arg Thr Gln Tyr Ser Ala Trp Val Lys Val Gln Met Pro Leu		
	325	330
Tyr Gln Gly Gly Gly Leu Thr Ala Arg Arg Asn Ala Ala Gly His Ala		
	340	345
Val Glu Ser Ala Gln Ser Thr Ile Gln Arg Thr Arg Leu Glu Val Arg		
	355	360
Gln Lys Leu Leu Glu Ala Arg Ser Gln Val Met Ser Leu Met Ser Thr		
	370	375
Leu Gln Ile Gln Gly Arg Gln Glu Ala Leu Ser Ala Arg Thr Arg Glu		
385	390	395
Leu Tyr Gln Gln Gln Tyr Leu Asp Leu Gly Ser Arg Pro Leu Leu Asp		
	405	410
Val Leu Asn Ala Glu Gln Glu Val Tyr Gln Ala Arg Phe Thr Gln Gln		
	420	425
Gln Thr Ala Gly Gln Leu His Gln Leu Gln Leu Asn Cys Leu Tyr Asn		
	435	440
Thr Gly Arg Leu Arg His Ala Phe Asp Leu Glu Asn Arg Thr Ile Gln		
	450	455
Thr Val Glu Ile Gln Pro		
465	470	

<210> 10119

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10119

Arg Arg Pro Lys Arg Gly Trp Thr Ala Leu Cys Ser Cys Arg Pro Arg		
1	5	10
Thr Ser Ala Lys Arg His Arg Ser Ala Arg Thr Cys Cys Ala Ala Thr		
	20	25
Ile Phe Ser Ser Arg Arg Ser Ser Ala Ile Thr Arg Lys Ile Pro Ala		
	35	40
Trp Arg Cys Ala Leu Thr Ala Trp Arg Ser Lys Arg Ala Lys Lys Trp		
	50	55
Arg Ser Ser Gly Ala Thr Ala Arg Ala Asn Gln Pro Cys Cys Arg Arg		
65	70	75
Trp Arg Ala Gly Trp Ile Trp Arg Ala Val Asn Cys Gly Ser Thr Thr		
	85	90
Ser Ala Cys Arg Ile Trp Thr Trp Leu Thr Cys Gly Glu Thr Ser Ala		
	100	105
Leu		110

<210> 10120

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 10120

Thr Thr Ala Val Cys Ser Asn Ser Ser Arg Gln Pro Asp Gly Ser Gly		
1	5	10
Lys Met Lys Ile Ser Gln Arg Asp Val Ala Ala Val Glu Asp Leu Asp		
	20	25
Asn Ala Leu Asp Ser Glu Ser Gly Tyr Thr Gly Ala Arg Arg Ile Val		
	35	40
		45

Phe Phe Ser Leu Val Met Phe Val Val Leu Gly Val Trp Ala Trp Phe
 50 55 60
 Gly Val Leu Asp Glu Val Ser Thr Gly Thr Gly Lys Val Ile Pro Ser
 65 70 75 80
 Ser Arg Glu Gln Val Leu Gln Ser Leu Asp Gly Gly Ile Leu Thr Glu
 85 90 95
 Leu Asn Val His Glu Gly Asp Gln Val Gln Ala Gly Gln Val Leu Ala
 100 105 110
 Arg Leu Asp Pro Thr Arg Ser Glu Ser Asn Val Gly Glu Ser Ala Ala
 115 120 125
 Arg Tyr Arg Ala Ser Leu Ala Ser Ser Ala Arg Leu Tyr Ala Glu Val
 130 135 140
 Asn Asp Leu Pro Leu Lys Phe Pro Pro Ser Leu Glu Lys Trp Thr Asp
 145 150 155 160
 Leu Thr Ala Ala Glu Thr Arg Leu Tyr Asn Ser Arg Arg Ala Gln Leu
 165 170 175
 Glu Asp Thr Gln Arg Glu Leu Arg Ser Ala Leu Ala Leu Ala Asn Lys
 180 185 190
 Glu Leu Ala Ile Thr Gln Arg Leu Val Lys Thr Gly Ala Ala Ser His
 195 200 205
 Val Glu Val Leu Arg Leu Gln Arg Gln Lys Ser Asp Leu Glu Leu Lys
 210 215 220
 Leu Thr Asp Val Arg Ser Gln Tyr Tyr Val Gln Ala Arg Glu Ala Leu
 225 230 235 240
 Ser Lys Ala Asn Ala Glu Val Asp Met Val Ser Ala Ile Leu Lys Gly
 245 250 255
 Arg Glu Asp Ser Val Thr Arg Leu Thr Val Lys Ser Pro Val Arg Gly
 260 265 270
 Ile Val Lys Asn Ile Lys Val Thr Thr Ile Gly Gly Val Ile Pro Pro
 275 280 285
 Asn Gly Glu Leu Met Glu Ile Val Pro Val Asp Asp His Leu Leu Ile
 290 295 300
 Glu Thr Arg Leu Ser Pro Arg Asp Ile Ala Phe Ile His Pro Asn Gln
 305 310 315 320
 Glu Ala Leu Val Lys Ile Thr Ala Tyr Asp Tyr Ala Ile Tyr Gly Gly
 325 330 335
 Leu His Gly Val Val Glu Thr Ile Ser Pro Asp Thr Ile Gln Asp Glu
 340 345 350
 Ala Lys Pro Glu Val Phe Tyr Tyr Arg Val Phe Ile Arg Thr Ser Gln
 355 360 365
 Asp Tyr Leu Val Asn Lys Ala Gly Arg His Phe Ser Ile Val Pro Gly
 370 375 380
 Met Ile Ala Thr Val Asp Ile Lys Thr Gly Glu Lys Thr Val Leu Asp
 385 390 395 400
 Tyr Met Ile Lys Pro Phe Asn Arg Ala Lys Glu Ala Leu Arg Glu Arg
 405 410 415

<210> 10121

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 10121

Ala Pro Ser Ser Ala Gly Gln Lys Asn Cys Ser Asp Phe Ala Ser Ser
 1 5 10 15
 Thr Leu Leu Tyr Ile Lys Pro Val Tyr Thr Val Tyr Lys His Ser Tyr
 20 25 30
 Gly Phe Ser Tyr Arg Lys Thr Ile Met Leu Ala Gln Leu Thr Ile Ser
 35 40 45

Asn	Phe	Ala	Ile	Val	Arg	Glu	Leu	Glu	Ile	Asp	Phe	His	Ser	Gly	Met
50						55				60					
Thr	Ala	Ile	Thr	Gly	Glu	Thr	Gly	Ala	Gly	Lys	Ser	Ile	Ala	Ile	Asp
65					70					75					80
Ala	Leu	Gly	Leu	Cys	Leu	Gly	Gly	Arg	Ala	Glu	Gly	Asp	Met	Val	Arg
				85					90					95	
Thr	Gly	Ala	Ala	Arg	Ala	Asp	Leu	Cys	Ala	Arg	Phe	Ser	Leu	Lys	Asp
			100					105					110		
Thr	Pro	Ala	Ala	Leu	Arg	Trp	Leu	Glu	Ala	Asn	Gln	Leu	Glu	Asp	Gly
		115					120					125			
Arg	Glu	Cys	Leu	Leu	Arg	Arg	Val	Ile	Ser	Ser	Asp	Gly	Arg	Ser	Arg
		130				135					140				
Gly	Phe	Ile	Asn	Gly	Thr	Ala	Val	Pro	Leu	Ser	Gln	Leu	Arg	Glu	Leu
145					150					155					160
Gly	Gln	Leu	Leu	Ile	Gln	Ile	His	Gly	Gln	His	Ala	His	Gln	Gln	Leu
				165					170					175	
Ile	Lys	Pro	Glu	Gln	Gln	Lys	Ala	Leu	Leu	Asp	Gly	Tyr	Ala	Gly	Glu
			180					185					190		
Tyr	Ala	Leu	Thr	Gln	Leu	Met	Ala	Glu	His	Tyr	Arg	Gln	Trp	His	Gln
		195					200					205			
Ser	Cys	Arg	Glu	Leu	Ala	Gln	His	Gln	Gln	Gln	Ser	Gln	Glu	Arg	Thr
		210				215					220				
Ala	Arg	Ala	Glu	Leu	Leu	Glu	Tyr	Gln	Leu	Lys	Glu	Leu	Asn	Glu	Phe
225					230					235					240
Asn	Pro	Gln	Ala	Gly	Glu	Phe	Glu	Gln	Ile	Asp	Glu	Glu	Tyr	Lys	Arg
				245					250					255	
Leu	Ala	Asn	Ser	Gly	Gln	Leu	Leu	Ser	Thr	Ser	Gln	Asn	Ala	Leu	Asn
			260					265					270		
Met	Leu	Ala	Asp	Gly	Glu	Asp	Val	Asn	Leu	Gln	Ser	Gln	Leu	Tyr	Asn
		275					280					285			
Val	Arg	Gln	Leu	Val	Thr	Glu	Leu	Thr	Gly	Met	Asp	Asn	Lys	Leu	Ser
		290				295					300				
Gly	Val	Leu	Glu	Met	Leu	Glu	Glu	Ala	Ala	Ile	Gln	Ile	Ser	Glu	Ala
305					310					315					320
Gly	Asp	Glu	Leu	Arg	His	Tyr	Cys	Glu	Arg	Leu	Asp	Leu	Asp	Pro	Asn
				325					330					335	
Arg	Leu	Phe	Glu	Leu	Glu	Gln	Arg	Ile	Ser	Arg	Gln	Ile	Ser	Leu	Ala
			340					345					350		
Arg	Lys	His	His	Val	Thr	Pro	Glu	Glu	Leu	Pro	Asn	Tyr	Tyr	Gln	Ser
		355					360					365			
Leu	Leu	Glu	Glu	Gln	Gln	Gln	Leu	Asp	Asp	Gln	Ala	Asp	Ser	Leu	Glu
		370				375					380				
Thr	Leu	Ser	Leu	Ala	Val	Asn	Leu	His	His	Gln	Gln	Ala	Leu	Glu	Thr
385					390					395					400
Ala	Lys	Arg	Leu	His	Asp	Val	Arg	Gln	His	Tyr	Ala	Gln	Glu	Leu	Ser
				405					410					415	
Gln	His	Ile	Thr	Asp	Ser	Met	His	Thr	Leu	Ala	Met	Pro	His	Gly	Val
			420					425					430		
Phe	Thr	Ile	Asp	Val	Arg	Phe	Glu	Glu	Asn	His	Leu	Thr	Ala	Glu	Gly
		435					440					445			
Ala	Asp	Arg	Val	Glu	Phe	Arg	Val	Thr	Thr	Asn	Pro	Gly	Gln	Pro	Leu
		450				455					460				
Gln	Ala	Ile	Ser	Lys	Val	Ala	Ser	Gly	Gly	Glu	Leu	Ser	Arg	Ile	Ala
465					470					475					480
Leu	Ala	Ile	Gln	Val	Ile	Thr	Ala	Arg	Lys	Met	Glu	Thr	Pro	Ala	Leu
				485					490					495	
Ile	Phe	Asp	Glu	Val	Asp	Val	Gly	Ile	Ser	Gly	Pro	Thr	Ala	Ala	Val
			500				505						510		
Val	Gly	Lys	Leu	Leu	Arg	Gln	Leu	Gly	Glu	Ser	Thr	Gln	Val	Met	Cys
		515					520					525			
Val	Thr	His	Leu	Pro	Gln	Val	Ala	Gly	Cys	Gly	His	His	His	Phe	Ile

530		535		540
Val Ser Lys Glu Thr Asp Gly Glu Met Thr Glu Thr His Met Lys Pro				
545		550		555
Leu Asp Lys Arg Ser Arg Leu Gln Glu Leu Ala Arg Leu Leu Gly Gly				560
		565		570
Ser Glu Val Thr Arg Asn Thr Leu Ala Asn Ala Lys Glu Leu Leu Ala				575
	580		585	590
Ala				

<210> 10122

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10122

Ala Ala Tyr Cys Ser Gly Pro Lys Arg Asn Gln Ile Thr Met Arg Cys				
1	5	10	15	
Lys Thr Leu Thr Ala Ala Ala Ala Val Leu Leu Met Leu Thr Ala Gly				
	20	25	30	
Cys Ser Thr Leu Glu Lys Val Val Tyr Arg Pro Asp Ile Asn Gln Gly				
	35	40	45	
Asn Tyr Leu Thr Pro Asn Asp Val Ser Lys Ile Arg Val Gly Met Thr				
	50	55	60	
Gln Gln Gln Val Ala Tyr Ala Leu Gly Thr Pro Met Met Ser Asp Pro				
65	70	75	80	
Phe Gly Thr Asn Thr Trp Phe Tyr Val Phe Arg Gln Gln Pro Gly His				
	85	90	95	
Glu Asp Val Thr Gln Gln Thr Leu Thr Leu Thr Phe Ser Ser Ala Gly				
	100	105	110	
Val Leu Thr Asn Ile Asp Asn Lys Pro Ala Leu Thr Lys				
	115	120	125	

<210> 10123

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 10123

Asp Arg Ala Ala Ala Ser Val Asp Asn Gly Val His Thr Val Arg				
1	5	10	15	
Lys Asn Ser Leu Lys Thr Ala Phe Leu Glu Asn Thr Pro Ile Val Asn				
	20	25	30	
Gly Trp Leu Ala Ile Pro Ser Gly Tyr Ser Ala Glu Ile Met Gly His				
	35	40	45	
Gln Gly Tyr Asp Ala Val Thr Val Asp Leu Gln His Gly Met Ile Asp				
	50	55	60	
Phe Ala Ser Ala Leu Ser Met Leu Gln Ala Leu Ser Ala Thr Pro Ala				
65	70	75	80	
Val Pro Leu Val Arg Val Ala Asp Asn Asp Pro Ala Gln Ile Met Arg				
	85	90	95	
Val Leu Asp Ala Gly Ala Tyr Gly Val Ile Cys Pro Met Ile Ser Ser				
	100	105	110	
Ala Glu Gln Ala Arg Arg Phe Val Ala Ala Cys Arg Tyr Pro Pro Leu				
	115	120	125	
Gly Val Arg Ser Phe Gly Pro Ala Arg Gly Leu Leu Tyr Gly Gly Ser				
	130	135	140	
Asp Tyr Pro Gln His Ala Asn Asp Glu Ile Leu Thr Leu Ala Met Ile				
145	150	155	160	
Glu Thr Arg Gln Gly Leu Ala Asp Leu Asp Ala Ile Leu Asp Thr Glu				
	165	170	175	

Gly Leu Asp Gly Val Phe Ile Gly Pro Asn Asp Leu Ser Leu Thr Leu
 180 185 190
 Thr Gly Ser Ala Ser Ala Glu Ser Gln His Pro Glu Met Leu Ala Ala
 195 200 205
 Ile Glu Arg Val Ile His Cys Cys Arg Gln Gln Gln Lys Ile Ala Gly
 210 215 220
 Ile Phe Cys Thr Ser Gly Ala Ala Ala Ala Arg Ile Ala Gln Gly
 225 230 235 240
 Phe Gln Phe Val Thr Pro Ala Asn Asp Val Met Gln Leu Gly Arg Ala
 245 250 255
 Ser Arg Glu Ala Ile Ala Leu Ala Arg Gly Asn Ala Ile Pro Thr Thr
 260 265 270
 Gly Ala Ser Gly Tyr
 275

<210> 10124

<211> 650

<212> PRT

<213> Enterobacter cloacae

<400> 10124

Pro Leu Trp Asn Tyr Phe Leu Arg His Leu His Leu Leu Tyr Phe Leu
 1 5 10 15
 Phe Thr Asp Val Ile Phe Arg Phe Ala Leu Pro Val Ser Asn Gly Ser
 20 25 30
 Val Ile Asn Asn Tyr Arg Gly Asn Arg Ile Ser Phe Ser Met Asp Phe
 35 40 45
 Tyr Phe Thr Arg Phe Glu His Arg Gln Pro Pro Glu Pro Leu Lys Thr
 50 55 60
 Pro Arg Trp Val Met Leu Thr Trp Gln Val Leu Ala Val Ala Ser Leu
 65 70 75 80
 Ile Leu Gly Ala Asn Tyr Ile Tyr Trp Arg Trp Thr Ala Ser Leu Asn
 85 90 95
 Thr Asp Ala Leu Trp Tyr Ala Ile Pro Leu Val Leu Ala Glu Thr Leu
 100 105 110
 Ala Trp Ile Gly Thr Val Leu Phe Thr Ile Asn Leu Trp Lys Glu Asp
 115 120 125
 Asp Pro Pro Gln Asn Pro Pro Pro Ile Glu Ile Asn Asp Cys Leu Arg
 130 135 140
 Ser Glu Asp Ala Glu Ala Ser Arg Pro Ile Lys Val Asp Leu Phe Ile
 145 150 155 160
 Ala Thr Tyr Ser Glu Asp Val Glu Leu Val Arg Leu Ser Ile Arg Asp
 165 170 175
 Ala Met Lys Met Asp Tyr Pro Gly Pro Leu Asp Tyr Lys Val His Val
 180 185 190
 Leu Asp Asp Gly Arg Arg Pro Glu Met Lys Ala Val Cys Asp Gln Glu
 195 200 205
 Gly Ala Asn Tyr Ile Ser Arg Gln Thr Asn Ile Gly Phe Lys Ala Gly
 210 215 220
 Asn Leu Arg Asn Gly Leu Glu Gln Thr Asp Gly Asp Phe Leu Ile Ile
 225 230 235 240
 Cys Asp Ala Asp Thr Arg Val Phe Pro Thr Leu Leu Ser His Thr Leu
 245 250 255
 Gly Tyr Phe Arg Asp Pro Asp Val Ala Trp Val Gln Thr Pro Gln Trp
 260 265 270
 Phe Phe Asp Leu Pro Glu Gly Glu Asn Leu Ala Arg Trp Leu Gly Arg
 275 280 285
 Lys Ala Gly Lys Thr Gly Tyr Gly Leu Gly Trp Leu Ala Gln Lys Phe
 290 295 300
 Ile Gly Pro Val Thr Ile Gly Arg Asp Pro Phe Phe Asn Asp Pro Arg
 305 310 315 320

Met Phe Tyr Asp Val Ile Leu Arg Arg Arg Asn Trp Ala Asn Ala Ala
 325 330 335
 Phe Cys Cys Gly Ala Ala Ser Ile His Arg Arg Glu Ala Val Met Gln
 340 345 350
 Ala Ala Leu Arg Ser Tyr Val Trp Thr Thr Glu Glu Glu Ile Asp Arg
 355 360 365
 His Thr Arg Asp Ile Arg Asp Pro Val Met Arg Glu Thr Leu Gln Asp
 370 375 380
 Ala Met Arg Pro His Val Ala Phe Asp Thr Glu Leu Thr Pro Tyr Lys
 385 390 395 400
 Phe His Val Ser Glu Asp Ile Tyr Thr Ser Ile Leu Leu His Gly Asp
 405 410 415
 Ala Ala Arg Arg Trp Arg Ser Val Met His Pro Arg Ile Glu Ser Lys
 420 425 430
 Met Leu Ser Pro Gln Asp Met Leu Thr Trp Met Ile Gln Arg Phe Lys
 435 440 445
 Tyr Ala Ala Gly Ser Leu Asp Ile Leu Phe His Asp Asn Ile Phe Ser
 450 455 460
 Arg Arg Arg Phe Lys Leu Ser Leu Pro Gln Thr Leu Met Tyr Ala Thr
 465 470 475 480
 Thr Phe Trp Ser Tyr Leu Ala Cys Val Trp Asn Thr Val Phe Leu Ile
 485 490 495
 Ser Pro Ile Val Tyr Leu Phe Thr Gly Ile Pro Pro Val Ser Ala Trp
 500 505 510
 Ser Glu Pro Phe Tyr Leu His Phe Leu Pro Phe Phe Ile Val Ser Glu
 515 520 525
 Leu Ala Phe Met Phe Gly Thr Trp Gly Ile Ser Ala Trp Asp Gly Arg
 530 535 540
 Ala Ser Tyr Leu Ser Phe Phe Ser Met Asn Leu Arg Ala Leu Asn Thr
 545 550 555 560
 Val Leu Arg Gly Glu Gln Ile Lys Phe His Val Thr Pro Lys Glu Arg
 565 570 575
 Gln Thr Gly Arg Phe Leu Tyr Leu Val Lys Pro Gln Ile Ala Ile Val
 580 585 590
 Val Leu Thr Leu Ala Gly Leu Ile Trp Gly Gly Ile Gln Val Ala Arg
 595 600 605
 Gly Gln Val Asp Asp Pro Ser Gly Tyr Val Ile Asn Ile Phe Trp Gly
 610 615 620
 Ala Val Asn Ile Ala Ala Met Leu Pro Leu Ile Phe Ala Ala Met Trp
 625 630 635 640
 Thr Pro Ala Glu Glu Glu Val Ser Glu
 645 650

<210> 10125

<211> 909

<212> PRT

<213> Enterobacter cloacae

<400> 10125

Val Thr Met Arg Ala Thr Ser Arg Phe Asp Leu Asn Ala Leu Pro Val
 1 5 10 15
 Gly Val Met Ile Tyr Asp Pro Ala Glu His Leu Leu Ala Trp Asn Asp
 20 25 30
 Gln Ile Ser Arg Phe Tyr Pro Val Ile Ala Pro Trp Leu Ile Ala Gly
 35 40 45
 Ala Ser Leu Glu Ser Leu Ala Glu Lys Phe Ile Asp Ala Gly Tyr Asn
 50 55 60
 Ile Asp Ser Thr Arg Arg Arg Thr Leu Arg Glu Ala Ile Val Arg Asn
 65 70 75 80
 Cys Arg Gln Ser Ser His Arg Glu Val Arg Gln Ser Gly Asn Arg Arg
 85 90 95

Leu	Tyr	Val	Gln	His	Gln	Arg	Leu	Ala	Asp	Gly	Gly	Ile	Leu	Ser	Leu
			100					105					110		
His	Thr	Asp	Ile	Thr	Glu	Leu	Asp	Ala	Gln	Arg	Ser	Arg	Gln	Gln	
		115					120					125			
Leu	His	Asp	Asp	Phe	Leu	Leu	Thr	Ala	Glu	Ser	Ile	Gln	Ile	Gly	Ile
	130					135					140				
Trp	Asn	Trp	Gln	Val	Ser	His	Asp	Ser	Leu	Glu	Val	Asn	Asp	Thr	Leu
145					150					155					160
Leu	Ala	Met	Val	Gly	Gln	Ser	Arg	Thr	Gln	Leu	His	Tyr	Pro	Leu	Arg
			165						170					175	
Phe	Leu	Leu	Asn	Leu	Val	His	Glu	Glu	Asp	Arg	Ala	Val	Leu	Arg	Asn
			180					185					190		
Ala	Met	Ile	Ala	Ser	Arg	Gln	Glu	His	Met	Pro	Val	Phe	Glu	Ser	Glu
		195					200					205			
Ile	Arg	Val	Gln	His	Ala	Thr	Gln	Gly	Trp	Arg	Trp	Met	Leu	Val	Ser
	210					215					220				
Gly	Gln	Val	Val	Thr	Leu	Ser	Met	Gln	Gln	Gln	Ala	Glu	Arg	Val	Ile
225					230					235					240
Gly	Thr	Leu	Gln	Asp	Ile	Thr	Arg	Arg	Lys	Glu	Ala	Glu	Leu	Leu	Ala
				245					250					255	
Ile	Glu	Ala	Ala	Lys	Val	Ala	Arg	Glu	Ala	Asn	Glu	Ala	Lys	Ser	Ala
			260					265					270		
Phe	Leu	Ala	Asn	Met	Ser	His	Glu	Ile	Arg	Thr	Pro	Met	Asn	Gly	Ile
		275					280					285			
Leu	Gly	Met	Thr	Gln	Leu	Cys	Leu	Asp	Thr	Gln	Leu	Thr	Pro	Glu	Gln
	290					295					300				
Arg	Glu	Tyr	Leu	Ser	Leu	Val	Met	Ser	Ser	Ala	Gln	Ser	Leu	Leu	His
305					310					315					320
Ile	Ile	Asn	Asp	Ile	Leu	Asp	Phe	Ser	Arg	Ile	Glu	Ser	Gly	Lys	Met
			325						330					335	
Thr	Val	Asp	Thr	Glu	Pro	Leu	Glu	Ile	Arg	Pro	Phe	Val	Gln	Ser	Leu
			340				345						350		
Ile	Arg	Pro	His	Met	Pro	Ser	Ala	Ser	Glu	Lys	Gly	Ile	Glu	Leu	Leu
		355					360					365			
Val	Asp	Ile	Ala	Pro	Gly	Val	Pro	Glu	Val	Leu	Ile	Val	Asp	Gly	Pro
	370				375						380				
Arg	Leu	Arg	Gln	Ile	Leu	Thr	Asn	Leu	Leu	Gly	Asn	Ala	Leu	Lys	Phe
385					390					395					400
Thr	His	His	Gly	Glu	Val	Met	Leu	Ala	Ile	Glu	Pro	Thr	Glu	Ser	Glu
			405						410					415	
Gly	His	Trp	Arg	Phe	Arg	Ile	Arg	Asp	Ser	Gly	Ile	Gly	Ile	Pro	Met
			420					425					430		
Glu	Lys	Gln	Lys	Ala	Ile	Phe	Glu	Ala	Phe	Ser	Gln	Ala	Asp	Ser	Ser
		435					440					445			
Thr	Thr	Arg	Arg	Tyr	Gly	Gly	Thr	Gly	Leu	Gly	Leu	Thr	Ile	Ser	Ala
	450				455						460				
Arg	Leu	Val	Ser	Leu	Met	Gly	Gly	Glu	Leu	Thr	Val	Gln	Ser	Glu	Pro
465					470					475					480
Gly	Glu	Gly	Ser	Glu	Phe	Ala	Phe	Thr	Leu	Pro	Leu	Glu	Gly	Gln	Leu
			485						490					495	
Ala	Val	Ser	Ala	Thr	Asp	Ala	Pro	Val	Ala	Arg	Phe	Asn	Gly	Glu	Ser
			500					505					510		
Val	Leu	Val	Val	Asp	Asp	Asn	Ser	Thr	Asn	Leu	Arg	Leu	Leu	Asp	Thr
		515					520					525			
Met	Leu	Arg	Gln	Met	Gly	Leu	Thr	Pro	Thr	Cys	Val	Asn	Asn	Ala	Gly
	530				535						540				
Glu	Ala	Leu	Ser	Leu	Thr	Ala	Lys	Arg	Gly	Tyr	Trp	Pro	Leu	Ile	Leu
545					550					555					560
Leu	Asp	Ala	Gln	Met	Pro	Asp	Met	Asp	Gly	Val	Ser	Leu	Ala	Ile	Glu
			565						570					575	
Leu	Ser	Val	Met	Pro	Gln	Ala	Glu	Gln	Ser	His	Ile	Ile	Met	Leu	Ser

```
<210> 10126
<211> 156
<212> PRT
<213> Enterobacter cloacae
```

<400> 10126																
Ala	Met	Asn	Ala	Gly	Tyr	Pro	Thr	Met	Leu	Leu	Ile	Pro	Gly	Met	Ser	
1				5					10					15		
Ala	Phe	Gln	Arg	Val	Asn	Glu	Pro	Ala	Pro	Gly	Leu	Ala	Gly	Arg	Met	
			20					25					30			
Phe	Phe	Gln	Val	His	Cys	Pro	His	Gly	Lys	Thr	Gly	Pro	Asn	Val	Gly	
		35					40					45				
Leu	His	Leu	His	Val	Gln	Arg	Asn	Pro	Phe	Ser	Arg	Cys	Glu	Ile	Phe	
	50					55					60					
Leu	Asp	His	Trp	Gln	Arg	His	Ile	Thr	Pro	Pro	Ser	Val	Glu	Leu	Ala	
65				70						75					80	
Pro	Gln	Phe	Asn	Ile	Arg	Val	Thr	Ser	Leu	Gln	Pro	Gly	Ala	Val	Glu	
			85						90					95		
Ser	Glu	Leu	Phe	Glu	His	Ile	Ser	Asp	Lys	Asn	Tyr	Arg	Ala	Gln	Met	

```
<210> 10127
<211> 129
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10128
<211> 92
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10129
<211> 308
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 10129
Ala Met Ser Ala Gln Asp Arg Gln Thr Leu Ser Leu Pro Ser Leu Arg
1          5          10          15
Asn Leu Gln Ala Phe Ile Ala Val Ala Asn Ala Leu Ser Ile His Gln
```

```
<210> 10130
<211> 297
<212> PRT
<213> Enterobacter cloacae
```

Lys	Val	Arg	Ser	Gly	Ala	Leu	Thr	Pro	Ala	Leu	Ser	His	Arg	Glu	Arg
1				5					10					15	
Gly	Ile	Asn	Arg	Gly	Ile	Gln	His	Met	Leu	His	His	Lys	His	Pro	Ala
			20					25					30		
His	His	Gln	Val	Gly	Arg	Asp	Lys	His	Gln	Gly	Thr	Ala	Leu	Gly	Lys
			35				40					45			
Ala	His	His	Arg	Gly	Val	Asp	His	Ala	Lys	Gln	Arg	Gln	Gln	Arg	Ala
			50				55					60			
Ser	Cys	Gly	Gly	Asp	Gly	Pro	Ala	Gln	Arg	Phe	Val	Glu	Asp	Gly	Glu
65					70					75					80
Asp	Gly	Asp	Thr	Ala	Pro	Glu	His	Ala	Gly	Glu	Arg	Arg	Ala	Val	Ala
				85					90					95	
Glu	Met	His	Gln	Ala	Phe	Val	Val	Asp	Thr	Leu	Ala	Val	Gln	His	Val
			100					105					110		
Gly	Ala	Asp	Phe	Arg	Arg	Ala	Gly	Pro	Arg	Gly	Ala	His	His	Ala	Val
			115					120				125			
His	His	Gly	Gln	Arg	Pro	Val	Gly	Asp	Pro	Arg	Glu	Gln	Ala	Asp	Glu

130		135		140
Asp Asn Gly His Leu His Phe Arg Gly Phe Pro His His Leu Val Gly				
145		150		155
Gly Asp Asp Ala Asp Lys His Gln Asn Arg His Asp Gly Gly His Arg				
	165		170	
Tyr Asp Gly Glu His Lys Gly Pro Gln Pro Glu Gln Arg His Asp Glu				
	180		185	
His Gly His Ala Gly Arg Gln Gly Val Ala Asp Ala Gly Ala His Arg				
	195		200	
Phe Pro Ala Arg Met Ala Asp Val Asp Arg Asp Arg Glu Arg Ile Ala				
	210		215	
His Gln Ala Ala Glu His Arg Gly Gln Thr Val Arg Gln His Tyr Leu				
225		230		235
Ala Gly Arg Val Phe Ile Pro Cys Arg Val Gly Ala Phe Asp Val Leu				
	245		250	
Gln Val Lys Asp Val Val Arg Gln Pro Gln Arg Tyr Gly Gly Arg Gln				
	260		265	
Ile Arg Gln Arg Val Arg Gln Pro Leu His Lys Ala Val His Val His				
	275		280	
Phe Arg Arg Val Lys Ala Glu Gly				285
	290		295	

<210> 10131

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10131

Cys Asn Ala Ser Val Lys Ile Cys Ser Lys Leu Met Val Thr Arg Ser	
1	5
His Asn Met Asn Ser Ile Phe Thr Glu Glu Asn Leu Leu Ala Phe Thr	
	20
Thr Ala Ala Arg Phe Gly Ser Phe Ser Lys Ala Ala Ala Glu Leu Gly	
	35
Val Thr Thr Ser Ala Ile Ser Tyr Thr Ile Lys Arg Met Glu Thr Gly	
	50
Leu Asp Val Val Leu Phe Val Arg Asn Thr Arg Ser Ile Glu Leu Thr	
65	70
Glu Ser Gly Phe Tyr Phe Tyr Arg Lys Ala Thr Asp Leu Leu Asn Asp	
	85
Phe His Ala Ile Lys Arg Gly Ile Asp Thr Ile Ser Gln Gly Ile Glu	
	100
Thr Arg Val Arg Ile Cys Ile Asn Gln Leu Leu Tyr Thr Pro Arg His	
	115
Thr Ala Arg Leu Leu Gln Val Leu Lys Lys Gln Phe Pro Thr Cys Gln	
	130
Ile Thr Val Thr Thr Glu Val Tyr Asn Gly Val Trp Asp Ser Ile Ile	
145	150
Asn Asn Gln Ala Asn Ile Ala Ile Gly Ala Pro Asp Thr Leu Leu Asp	
	165
Gly Gly Gly Ile Asp Tyr Thr Glu Ile Gly Ala Ile Arg Trp Val Phe	
	180
Ala Ile Ala Pro Thr His Pro Leu Ala Phe Ala Pro Glu Pro Ile Ser	
	195
Glu Ser Gln Leu Arg Leu Tyr Pro Asn Ile Met Val Glu Asp Thr Ala	
	210
His Thr Ile Asn Lys Lys Val Gly Trp Leu Leu His Gly Gln Glu Ala	
225	230
Ile Leu Val Pro Asp Phe Asn Thr Lys Cys Gln Cys Gln Ile Leu Gly	
	245
Glu Gly Ile Gly Phe Leu Pro Glu Tyr Met Thr Arg Glu Ala Val Glu	
	250

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<210> 10132
<211> 171
<212> PRT
<213> Enterobacter cloacae
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<210> 10133
<211> 196
<212> PRT
<213> Enterobacter cloacae
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<400> 10133															
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Lys	Ile	Ala	Lys	Lys	Leu	Thr	Asp	Thr	Glu	Ile	Lys	Ser	Thr	Lys	Pro
			20					25					30		
Ala	Asp	Lys	Glu	Ile	Asn	Leu	Phe	Asp	Gly	Asp	Gly	Leu	Ile	Leu	Arg
		35					40					45			
Ile	Ala	Pro	Leu	Thr	Lys	Gly	Gly	Lys	Lys	Asn	Trp	Tyr	Phe	Arg	Tyr
	50					55					60				
Ala	Val	Pro	Val	Ser	Lys	Lys	Arg	Thr	Lys	Met	Ser	Leu	Gly	Thr	Tyr
65					70					75					80
Pro	His	Leu	Thr	Leu	Ala	Arg	Ala	Arg	Thr	Leu	Arg	Asp	Glu	Tyr	Leu
				85					90					95	
Ser	Leu	Leu	Ala	Asn	Gly	Ile	Asp	Pro	Gln	Val	His	Asn	Ser	Asn	Lys
			100					105					110		
Ala	Asn	Ala	Leu	Lys	Asn	Ala	Thr	Glu	His	Thr	Leu	Gln	Ala	Val	Ala
		115					120					125			

Arg Lys Trp Leu Asp Glu Lys Val Lys Thr Ser Gly Ile Ser Gln Asp
 130 135 140
 His Ala Glu Asp Ile Trp Arg Ser Leu Glu Arg Asn Ile Phe Pro Gly
 145 150 155 160
 Leu Gly Asn Val Pro Val Asn Glu Ile Arg Pro Lys Leu Leu Lys Gln
 165 170 175
 His Leu Asp Pro Ile Glu Gln Arg Gly Val Leu Glu Thr Glu Ser Pro
 180 185 190
 Arg Ile Ile
 195

<210> 10134

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10134

Arg Arg Leu Asp Gly Tyr Val Arg Asp Ala Met Glu Tyr Pro Leu Leu
 1 5 10 15
 Asp Asn Thr Asp Leu Pro Leu Val Leu Leu Gly Gly Thr Leu Cys Asn
 20 25 30
 Val Arg Leu Trp Gln Pro Val Ile Glu Arg Leu Asn Ile Ser Ala Val
 35 40 45
 Leu Cys Ile Thr Leu Thr Gly Ala Glu Ser Ala Pro Gln Ala Ser Arg
 50 55 60
 Arg Leu Leu Lys Val Leu Pro Pro Arg Phe Leu Leu Ala Gly Phe Ser
 65 70 75 80
 Leu Gly Ala Ile Val Ala Leu Gln Met Ala Ala Asp Ala Pro Glu Arg
 85 90 95
 Val Asn Gly Leu Thr Leu Ile Ser Val Asn Pro Leu Pro Val Ala Pro
 100 105 110
 Asp Thr Leu Ala Ser Arg Arg Glu Ala Val His Thr Ala Gln Ala His
 115 120 125
 Gly Leu Ala Asp Trp Leu Val Ser Ser Leu Trp Gln Ser Tyr Val Ala
 130 135 140
 Pro Ser Arg Leu Ser Asp Arg Ile Leu Gln Glu Thr Ile Cys Arg Met
 145 150 155 160
 Ala Gln Glu Cys Gly Ile Glu Thr Phe Ala Gly Gln Thr Glu Met Ala
 165 170 175
 Ile His Arg Gln Asp Asn Arg Thr Ala Phe Asn Ala Leu Ala Cys Pro
 180 185 190
 Thr Leu Leu Leu Asn Gly Ala Gln Asp Val Ile Cys Thr Pro His His
 195 200 205
 His Gln Leu Leu Ala Ala Gly Asn Ala Asn Val Thr Arg His Thr Val
 210 215 220
 Glu Ala Gly Gly His Phe Ile Pro Leu Glu Thr Pro Asp Glu Ile Ala
 225 230 235 240
 Pro Leu Leu Arg Gln Trp Ile Thr Glu Cys Ile Gln Cys Ala Lys Thr
 245 250 255
 Val

<210> 10135

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10135

Arg His Val Val Gly Phe Ser Thr Ser Leu Phe Ile Ser Thr Gly Ala
 1 5 10 15
 Ile Trp Leu Met Gly Arg Arg Val Leu His Ala Lys Lys Phe Leu Val

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<210> 10136
<211> 759
<212> PRT
<213> Enterobacter cloacae
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Ala 1	Phe	Tyr	Met	Ala 5	Ser	Leu	Ser	Arg	Arg 10	Pro	Asp	Ala	Leu	Arg 15	Pro
Gly	Cys	Ala	Ala 20	Glu	His	Arg	Arg	Leu 25	Lys	Met	Ile	Arg	Leu 30	Leu	Leu
Leu	Leu	Ala 35	Ile	Ser	Pro	Leu	Leu 40	Ala	Gln	Ala	Ser	Gln 45	Pro	Val	Thr
Trp	Ser 50	Leu	Ala	Gly	Met 55	Trp	Arg	Val	His	Asp 60	Ala	Asn	Leu	Ser	Thr
Phe 65	Asp	Gly	Ala	Ser 70	Ala	Pro	Asp	Arg	Asp 75	Trp	Arg	Ser	Ile	Ala 80	Val
Pro	Ala	Asn	Trp 85	Tyr	Ser	Ala	Gly	Tyr	Asp 90	His	Gln	Gly	Ala 95	Leu	Trp
Tyr	Arg	His	Glu 100	Phe	Thr	Leu	Pro	Arg 105	Arg	Ala	Pro	Asp	Thr 110	Met	Ala
Thr	Leu	Val 115	Phe	Asp	Gly	Val	Asp 120	Tyr	Phe	Ala	Asp	Val 125	Thr	Leu	Asn
Gly	Arg 130	His	Leu	Ala	His	His 135	Glu	Gly	Tyr	Phe	Gln 140	Arg	Phe	Ser	Val
Asp 145	Ile	Ser	Asp	Ala 150	Leu	Gln	Arg	His	Asn 155	Lys	Leu	Ala	Val	Arg	Val
Asp	Ser	Pro	Trp 165	Glu	Asp	Pro	Lys	Thr	Ile 170	Trp	Pro	Leu	His	Lys 175	Thr
Met	Val	Lys 180	Gly	Val	Leu	Asn	Gln	His 185	Asp	Thr	Arg	Pro	Gly 190	Gly	Ala
Trp	Ser 195	Glu	Asp	Gly	Gln	Asp	Ala 200	Asn	Ser	Gly	Gly 205	Ile	Trp	Ser	Pro
Val	Lys 210	Leu	His	Leu	Ser	Arg 215	Gly	Val	Thr	Ile	Asp 220	Glu	Val	Ile	Leu
Arg 225	Pro	Asp	Trp	Arg 230	Glu	Gly	Leu	Ser	Lys 235	Pro	Ala	Leu	His	Ala 240	Glu
Ile	Arg	Tyr	Arg 245	Leu	Ser	Ala	Gly	Asp 250	Val	Thr	Leu	Arg	Leu 255	Leu	Ser
Ala	Thr	Pro	Asp 260	Asn	Phe	Thr	Gly	Pro 265	Pro	Val	Lys	Gln	Glu 270	Phe	Pro
Val	Asn 275	Leu	Ala	Arg	Thr	Asp	Gly 280	Lys	Pro	Gln	Ser	Leu	Arg	Val	Thr
Leu	Pro 290	Met	Gln	Gly	Ala	Arg 295	Leu	Trp	Trp	Pro	Val	Gly	Tyr	Gly	Arg
Pro 305	Asn	Leu	Tyr	Arg 310	Val	Arg	Ala	Thr	Leu	Thr 315	Asp	Lys	Gln	Gly	Val
Met	Asp	Thr	Ala 325	Val	Ala	Arg	Thr	Gly	Leu 330	Arg	Lys	Ile	Val	Lys 335	Gln
Pro	Asp	Asn	Lys	Gly	Trp	Leu	Phe	Asn	Asp	Lys	Arg	Leu	Phe	Ile	Lys


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<210> 10137
<211> 3839
<212> PRT
<213> Enterobacter cloacae
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Thr Val Phe Ser Pro Gly Ala Arg Ser Ser Leu Gln Lys Arg Trp Leu

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Cys	Phe	Thr	Arg	Arg	Asn	Gln	Ser	Leu	Ser	Trp	Ser	Asn	Asn	Cys	Met
			20					25				30			
Ser	Gln	Ile	Ser	Val	Ile	Ser	Lys	Leu	Thr	Gly	Val	Glu	Thr	Thr	Thr
		35					40					45			
Glu	Gly	Thr	Gln	Ile	Thr	Leu	Asp	His	Ser	Ser	Ile	Val	Lys	Leu	Asn
	50					55					60				
Val	Asp	Arg	Ala	Asp	Ile	Ser	Gly	Tyr	Ser	Arg	Ser	Gly	Asn	Asp	Leu
65				70					75					80	
Val	Ile	Thr	Leu	Asn	Ser	Gly	Glu	Val	Ile	Thr	Leu	Lys	Asn	Phe	Tyr
			85					90					95		
Val	Thr	Asp	Ala	Gln	Gly	Val	Ser	Gln	Leu	Val	Leu	Glu	Glu	Ser	Asp
		100					105					110			
Gly	Ala	Leu	Trp	Trp	Ile	Glu	Asp	Pro	Thr	Gly	Ala	Ala	Thr	Tyr	Glu
		115					120					125			
Ser	Ile	Ala	Ser	Thr	Asp	Ala	Leu	Leu	Ala	Ala	Ser	Gly	Ser	Asp	Ala
	130					135					140				
Gly	Gly	Ala	Ala	Ala	Trp	Pro	Trp	Val	Leu	Gly	Gly	Leu	Ala	Ala	Ala
145				150						155				160	
Gly	Gly	Ile	Ala	Ile	Ala	Ala	Gly	Thr	Gly	Gly	Gly	Gly	Gly	Gly	Asp
			165					170					175		
Asp	Asp	Asn	Asn	Ser	Pro	Asn	Pro	Gly	Asn	Pro	Gly	Asn	Pro	Ser	Glu
		180						185				190			
Pro	Asp	Thr	Thr	Pro	Pro	Asp	Ala	Pro	Thr	Asn	Leu	Gln	Val	Ser	Pro
		195					200					205			
Asp	Gly	Lys	Thr	Val	Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Thr	Ile	Thr
	210					215					220				
Leu	Lys	Asp	Ala	Asp	Gly	Asn	Thr	Ile	Gly	Thr	Gly	Lys	Ala	Gly	Ser
225				230						235				240	
Asp	Gly	Lys	Phe	Thr	Ile	Asp	Leu	Gly	Thr	Pro	Leu	Thr	Asn	Gly	Glu
			245					250					255		
Gln	Ile	Thr	Ala	Thr	Ala	Thr	Asp	Pro	Ser	Gly	Asn	Thr	Ser	Gln	Gly
			260				265					270			
Gly	Gln	Val	Thr	Ala	Pro	Asp	Leu	Thr	Ala	Pro	Asp	Ala	Pro	Ala	Asn
		275					280					285			
Leu	Glu	Val	Ser	Pro	Asp	Gly	Lys	Thr	Val	Thr	Gly	Thr	Ala	Glu	Pro
	290					295					300				
Gly	Ser	Thr	Val	Thr	Leu	Lys	Asp	Ala	Asp	Gly	Asn	Thr	Ile	Gly	Thr
305				310						315				320	
Gly	Lys	Ala	Gly	Ser	Asp	Gly	Lys	Phe	Thr	Ile	Asp	Leu	Gly	Thr	Pro
			325					330					335		
Leu	Thr	Asn	Gly	Glu	Gln	Ile	Thr	Ala	Thr	Ala	Thr	Asp	Pro	Ser	Gly
			340					345				350			
Asn	Thr	Ser	Pro	Gly	Val	Gln	Val	Thr	Ala	Pro	Asp	Leu	Thr	Ala	Pro
		355		</											

Thr	Asn	Asp	Pro	Arg	Pro	Gln	Leu	Thr	Gly	Thr	Ala	Glu	Ala	Gly	Ser
			500					505					510		
Thr	Ile	Thr	Ile	Tyr	Asp	Asn	Gly	Ile	Ala	Ile	Gly	Thr	Ala	Ile	Val
		515					520					525			
Gly	Ser	Asn	Gly	Ser	Trp	Ser	Phe	Thr	Pro	Ser	Val	Asn	Leu	Ser	Glu
	530					535					540				
Gly	Ser	His	Gln	Leu	Thr	Val	Arg	Ala	Thr	Asp	Val	Ala	Gly	Asn	Thr
545					550					555					560
Gly	Pro	Ala	Ser	Pro	Val	Phe	Thr	Val	Thr	Val	Asp	Val	Thr	Ala	Pro
				565					570						575
Gln	Thr	Pro	Ser	Gly	Phe	Ile	Ile	Asn	Asp	Asp	Thr	Gly	Val	Leu	Lys
			580					585					590		
Gly	Ala	Ile	Gly	Ala	Gly	Gln	Phe	Thr	Asp	Ala	Ser	Glu	Pro	Arg	Leu
		595					600					605			
Thr	Gly	Arg	Gly	Glu	Pro	Gly	Ser	Thr	Ile	Thr	Val	Tyr	Asp	Asn	Gly
	610					615					620				
Val	Val	Ile	Gly	Thr	Thr	Thr	Val	Leu	Pro	Asn	Gly	Thr	Trp	Ser	Ile
625					630					635					640
Thr	Pro	Thr	Ser	Pro	Leu	Ala	Glu	Gly	Ala	His	Ser	Ile	Thr	Leu	Arg
				645					650						655
Glu	Thr	Asp	Ala	Ala	Gly	Asn	Gln	Ser	Gly	Leu	Ser	Gln	Pro	Ile	Asn
			660					665					670		
Phe	Thr	Val	Asp	Leu	Thr	Pro	Pro	Asp	Met	Pro	Val	Ala	Thr	Leu	Asn
		675					680					685			
Ser	Ala	Gly	Thr	Gln	Ile	Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Lys	Ile
	690					695					700				
Val	Ile	Thr	Asn	Asn	Ala	Gly	Leu	Gln	Ile	Gly	Thr	Ala	Thr	Ala	Asp
705					710					715					720
Ser	Asn	Gly	Asn	Tyr	Val	Val	Asn	Leu	Asn	Pro	Ala	Gln	Thr	Asn	Gly
				725					730						735
Glu	Ile	Ile	Ser	Val	Val	Ala	Ser	Asp	Ala	Ala	Gly	Asn	Gln	Ser	Ser
			740					745					750		
Pro	Ala	Leu	Val	Asn	Ala	Ala	Asp	Ile	Thr	Pro	Pro	Ala	Ala	Pro	Gly
		755					760					765			
Asn	Leu	Val	Val	Ala	Glu	Asp	Gly	Ala	Ser	Val	Ser	Gly	Thr	Ala	Glu
	770					775					780				
Pro	Asn	Ser	Thr	Ile	Ile	Ile	Lys	Ala	Pro	Asp	Gly	Thr	Ile	Ile	Gly
785					790					795					800
Gln	Ala	Thr	Ala	Gly	Pro	Asp	Gly	Thr	Phe	Thr	Ile	Pro	Ile	Ser	Pro
				805					810						815
Ala	Gln	Thr	Asn	Gly	Glu	Ala	Leu	Glu	Val	Thr	Ala	Thr	Asp	Gly	Ser
			820					825					830		
Gly	Asn	Thr	Ser	Pro	Ser	Gly	Phe	Ala	Asp	Ala	Pro	Asp	Ser	Thr	Pro
		835					840					845			
Pro	Leu	Ala	Pro	Glu	Asn	Val	Val	Ile	Ser	Ala	Asp	Gly	Thr	Thr	Val
	850					855					860				
Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Glu	Asn	Gly
865					870					875					880
Val	Lys	Val	Gly	Glu	Thr	Val	Ala	Asp	Asp	Gln	Gly	Asn	Phe	Ser	Val
				885					890						895
Glu	Leu	Ile	Pro	Pro	Lys	Ala	Asn	Gly	Glu	Ala	Leu	Thr	Ala	Asp	Ala
			900					905					910		
Thr	Asp	Thr	Ala	Gly	Asn	Thr	Gly	Pro	Thr	Ala	Pro	Phe	Asp	Ala	Pro
		915					920					925			
Asp	Ile	Thr	Ala	Ala	Gln	Thr	Pro	Val	Ile	Thr	Gly	Val	Val	Asp	Asp
	930					935					940				
Ala	Pro	Gly	Val	Thr	Gly	Pro	Val	Ser	Gln	Asn	Gly	Leu	Thr	Asn	Asp
945					950					955					960
Asn	Thr	Pro	Thr	Ile	Asn	Gly	Thr	Gly	Glu	Pro	Gly	Thr	Thr	Ile	Thr
				965					970						975
Leu	Tyr	Ser	Gly	Thr	Thr	Val	Leu	Gly	Thr	Ala	Leu	Val	Ser	Ala	Asn

980					985					990					
Gly	Gln	Trp	Ser	Ile	Thr	Leu	Gln	Thr	Ala	Leu	Pro	Asp	Gly	Gly	His
995					1000					1005					
Val	Leu	Thr	Ala	Thr	Ala	Val	Asp	Ala	Asn	Asn	Asn	Leu	Ser	Gly	Thr
1010					1015					1020					
Ser	Asn	Thr	Trp	Ser	Ile	Thr	Val	Asp	Thr	Ala	Ala	Pro	Gly	Ala	Pro
1025					1030					1035					
Ala	Ile	Thr	Gln	Val	Ile	Asp	Asp	Val	Pro	Gly	Arg	Thr	Gly	Ala	Leu
1045					1050					1055					
Asp	Thr	Asn	Glu	Thr	Thr	Asn	Asp	Thr	Leu	Pro	Thr	Leu	Asn	Gly	Thr
1060					1065					1070					
Gly	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Leu	Asp	Gly	Gln	Asp	Ile
1075					1080					1085					
Gly	Thr	Ala	Val	Val	Asn	Ser	Gly	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Ala
1090					1095					1100					
Thr	Pro	Leu	Val	Asn	Gly	Gln	His	Thr	Phe	Thr	Val	Val	Ala	Ser	Asp
1105					1110					1115					
Ala	Ala	Gly	Asn	Ala	Ser	Ala	Pro	Ser	Ala	Gly	Phe	Thr	Leu	Thr	Val
1125					1130					1135					
Asp	Thr	Thr	Pro	Pro	Ala	Ala	Thr	Ile	Asp	Thr	Val	Ser	Asp	Asn	
1140					1145					1150					
Val	Gly	Pro	Val	Gln	Leu	Pro	Leu	Asn	Ser	Gly	Asp	Thr	Thr	Asp	Asp
1155					1160					1165					
Thr	Leu	Pro	Gln	Leu	Gln	Gly	Thr	Ala	Pro	Asp	Gly	Thr	Thr	Ile	Thr
1170					1175					1180					
Ile	Tyr	Asp	Gly	Thr	Thr	Leu	Leu	Gly	Thr	Ala	Val	Leu	Asp	Gly	Ser
1185					1190					1195					
Gly	Gly	Trp	Ser	Phe	Thr	Pro	Thr	Thr	Pro	Leu	Thr	Asp	Gly	Pro	His
1205					1210					1215					
Ser	Leu	Thr	Val	His	Ala	Thr	Asp	Glu	Ala	Gly	Asn	Thr	Thr	Ile	Ser
1220					1225					1230					
Pro	Pro	Phe	Glu	Leu	Ala	Ile	Asn	Thr	Thr	Ala	Pro	Ala	Thr	Pro	Asp
1235					1240					1245					
Ile	Pro	Glu	Ile	Thr	Val	Asn	Pro	Asp	Gly	Gly	Thr	Pro	Gly	Thr	Ala
1250					1255					1260					
Leu	Asn	Pro	Gly	Glu	Thr	Thr	Arg	Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly
1265					1270					1275					
Ser	Gly	Thr	Pro	Gly	Asp	Ile	Val	Asn	Ile	Tyr	Asp	Gly	Ala	Thr	Lys
1285					1290					1295					
Ile	Gly	Glu	Ala	Glu	Ile	Asp	Gly	Asp	Gly	Asn	Trp	Ser	Trp	Thr	Pro
1300					1305					1310					
Asp	Asp	Pro	Leu	Pro	Asp	Gly	Thr	Tyr	Asp	Leu	Ser	Leu	Thr	Val	Thr
1315					1320					1325					
Asn	Gln	Asp	Ser	Ala	Gly	Asn	Glu	Ser	Ala	Pro	Ser	Thr	Pro	Val	Thr
1330					1335					1340					
Ile	Thr	Ile	Asp	Thr	Asp	Ala	Pro	Ala	Gln	Pro	Gly	Thr	Pro	Thr	Val
1345					1350					1355					
Thr	Asp	Ser	Val	Ser	Gln	Ile	Thr	Gly	Pro	Val	Leu	Asp	Gly	Glu	Ser
1365					1370					1375					
Thr	Asn	Asp	Pro	Arg	Pro	Val	Leu	Ser	Gly	Thr	Gly	Thr	Pro	Asn	Asp
1380					1385					1390					
Val	Ile	Thr	Ile	Tyr	Asp	Gln	Val	Gly	Thr	Gly	Glu	Pro	Gln	Ala	Val
1395					1400					1405					
Gly	Ser	Val	Thr	Val	Asp	Gly	Asn	Gly	Asn	Trp	Ser	Trp	Arg	Pro	Glu
1410					1415					1420					
Ser	Asn	Ile	Gly	Glu	Gly	Thr	His	Glu	Tyr	Thr	Ala	Thr	Ala	Thr	Asp
1425					1430					1435					
Glu	Ala	Gly	Asn	Glu	Ser	Val	Pro	Ser	Ala	Gly	Ile	Thr	Ile	Thr	Val
1445					1450					1455					
Asp	Thr	Leu	Ala	Pro	Asp	Thr	Pro	Val	Ile	Ser	Ala	Ile	Gly	Gly	Val
1460					1465					1470					

Gln Asn Gly Glu Ser Thr Asn Asp Thr Thr Pro Gly Ile Gly Gly Thr
 1475 1480 1485
 Gly Thr Thr Gly Glu Thr Val Ile Ile Tyr Asn Asn Gly Val Glu Val
 1490 1495 1500
 Ala Arg Val Glu Val Val Asn Asn Glu Trp Ser Tyr Thr Leu Pro Thr
 1505 1510 1515 1520
 Gln Thr Asp Gly Pro Leu Asn Ile Thr Val Ala Ala Val Asp Asp Ala
 1525 1530 1535
 Gly Asn Val Ser Pro Val Ser Pro Val Phe Thr Val Glu Val Asp Thr
 1540 1545 1550
 Gln Ala Pro Thr Val Pro Gln Ile Asp Ala Val Ser Asp Ser Gln Leu
 1555 1560 1565
 Thr Asn Ser Val Leu Tyr Thr Arg Asp Gly Thr Pro Thr Leu Thr Gly
 1570 1575 1580
 Ile Gly Glu Pro Gly Ser Ser Val Thr Val Ser Val Asp Gly Val Ala
 1585 1590 1595 1600
 Ser Pro Val Val Val Glu Val Gln Pro Asn Gly Thr Trp Ser Trp Thr
 1605 1610 1615
 Ala Asp Pro Ala Leu Thr Glu Gly Pro His Thr Phe Ser Val Val Ala
 1620 1625 1630
 Ser Asp Ala Ala Gly Asn Thr Ser Ala Ser Ser Gly Asp Leu Ser Val
 1635 1640 1645
 Thr Val Asp Thr Leu Pro Pro Ala Thr Pro Thr Asn Met Thr Ile Ala
 1650 1655 1660
 Ala Glu Gly Thr Pro Leu Thr Gly Thr Ala Asp Asp Gly Thr Thr Val
 1665 1670 1675 1680
 Thr Val Arg Asp Ala Asn Gly Asn Ile Ile Gly Thr Gly Val Ala Thr
 1685 1690 1695
 Gly Gly Ser Phe Tyr Ile Ala Leu Ser Pro Ala Gln Leu Asp Ala Ala
 1700 1705 1710
 Thr Leu Thr Leu Ile Ala Thr Asp Pro Ala Gly Asn Ala Ser Ser
 1715 1720 1725
 Thr Thr Phe Asp Val Pro Asp Ser Pro Leu Glu Leu Pro Ala Val Pro
 1730 1735 1740
 Val Ile Thr Ala Ile Asn Asp Asp Val Asp Pro Val Thr Gly Asp Val
 1745 1750 1755 1760
 Lys Asp Lys Thr Thr Asn Asp Thr Thr Pro Thr Leu Thr Gly Thr Ala
 1765 1770 1775
 Asp Pro Gly Ser Val Ile Ala Ile Tyr Gln Asp Gly Ser Leu Leu Pro
 1780 1785 1790
 Val Thr Thr Val Val Ala Asp Thr Asn Gly Asn Trp Ser Tyr Thr Pro
 1795 1800 1805
 Leu Leu Pro Leu Thr Glu Gly Pro His Thr Phe Ala Val Thr Ala Thr
 1810 1815 1820
 Asn Thr Thr Thr Gly Ala Thr Ser Gly Gln Ser Pro Val Ala Thr Val
 1825 1830 1835 1840
 Thr Val Asp Leu Thr Ala Pro Thr Ala Pro Ala Ile Gly Ala Val Thr
 1845 1850 1855
 Asp Asp Val Gly Pro Ile Thr Gly Pro Ile Ala Asp Gly Gln Ser Thr
 1860 1865 1870
 Asn Asp Asn Arg Pro Thr Leu Thr Gly Thr Gly Thr Ala Gly Asp Thr
 1875 1880 1885
 Ile Thr Val Tyr Asp Asn Gly Asp Pro Leu Gly Thr Val Ile Val Gly
 1890 1895 1900
 Pro Thr Gly Thr Trp Ser Tyr Thr Pro Pro Val Leu Asp Asp Gly Ser
 1905 1910 1915 1920
 His Thr Leu Thr Val Thr Ala Thr Asp Pro Ala Gly Asn Glu Ser Thr
 1925 1930 1935
 Pro Ser Ala Gly Ile Thr Ile Val Val Asp Thr Val Ser Thr Thr Pro
 1940 1945 1950
 Val Ile Thr Ser Val Thr Asp Asn Ala Gly Asn Ala Ala Thr Pro Val

1955				1960				1965							
Pro	Ser	Gly	Asp	Pro	Thr	Asn	Asp	Thr	Thr	Pro	Thr	Leu	Thr	Gly	Thr
1970				1975						1980					
Ala	Glu	Pro	Asn	Ser	Val	Val	Ala	Ile	Phe	Asp	Gly	Thr	Thr	Gln	Ile
1985				1990						1995				2000	
Gly	Thr	Val	Ala	Ala	Asp	Gly	Thr	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Glu
				2005						2010				2015	
Thr	Ala	Leu	Gly	Glu	Gly	Thr	His	Asp	Phe	Thr	Val	Arg	Ala	Thr	Asp
				2020						2025				2030	
Pro	Gln	Gly	Asn	Val	Ser	Gln	Pro	Ser	Asn	Ala	Trp	Ser	Val	Glu	Ile
				2035						2040				2045	
Asp	Leu	Thr	Ala	Pro	Gln	Val	Pro	Thr	Ile	Val	Thr	Val	Ser	Asp	Asn
				2050						2055				2060	
Ala	Pro	Gly	Gly	Val	Thr	Gly	Pro	Leu	Thr	Ala	Gly	Gln	Val	Thr	Asn
2065										2075				2080	
Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly	Thr	Gly	Gln	Ala	Gly	Thr	Thr	Ile
				2085						2090				2095	
His	Val	Leu	Asn	Asn	Gly	Val	Glu	Ile	Gly	Thr	Thr	Thr	Val	Asp	Gly
				2100						2105				2110	
Asn	Gly	Asn	Trp	Thr	Phe	Thr	Pro	Asp	Pro	Val	Leu	Thr	Asp	Gly	Thr
				2115						2120				2125	
Tyr	Asn	Leu	Arg	Val	Asn	Ala	Ser	Asp	Asp	Val	Gly	Asn	Val	Ser	Ala
				2130						2135				2140	
Asn	Ser	Pro	Val	Phe	Ala	Phe	Thr	Val	Asp	Thr	Thr	Gly	Pro	Ala	Ala
2145										2155				2160	
Pro	Val	Val	Thr	Thr	Val	Ile	Asp	Asp	Val	Ser	Pro	Gly	Thr	Gly	Ile
				2165						2170				2175	
Ile	Ala	Ser	Asn	Gly	Ser	Thr	Asn	Asp	Thr	Arg	Pro	Thr	Phe	Asn	Gly
				2180						2185				2190	
Thr	Gly	Glu	Val	Gly	Ala	Thr	Val	His	Val	Ile	Val	Asp	Asp	Val	Glu
				2195						2200				2205	
Ile	Gly	Thr	Ala	Val	Val	Asn	Ala	Gln	Gly	Asn	Trp	Thr	Phe	Thr	Pro
				2210						2215				2220	
Thr	Thr	Ala	Leu	Gly	Glu	Gly	Pro	His	Thr	Ile	Thr	Phe	Asn	Ala	Thr
2225										2235				2240	
Asp	Ala	Ala	Gly	Asn	Thr	Gly	Val	Thr	Ser	Pro	Pro	Phe	Asn	Leu	Thr
				2245						2250				2255	
Val	Asp	Thr	Ser	Val	Pro	Asp	Ala	Pro	Val	Phe	Thr	Pro	Ala	Thr	Asp
				2260						2265				2270	
Asn	Ala	Gly	Pro	Val	Leu	Gly	Pro	Val	Ala	Ser	Gly	Gln	Ser	Thr	Asp
				2275						2280				2285	
Asp	Thr	Thr	Pro	Thr	Leu	Asn	Gly	Thr	Ala	Ala	Ala	Asn	Ala	Thr	Ile
				2290						2295				2300	
Thr	Ile	Tyr	Glu	Asn	Gly	Gln	Pro	Val	Gly	Thr	Ala	Val	Ala	Asp	Ala
2305										2315				2320	
Asn	Gly	Val	Trp	Ser	Phe	Thr	Thr	Gly	Thr	Leu	Ala	Asn	Gly	Ser	His
				2325						2330				2335	
Thr	Trp	Thr	Ala	Thr	Ala	Thr	Asp	Ala	Gly	Asn	Ile	Ser	Pro	Ala	Ala
				2340						2345				2350	
Ser	Pro	Gly	Phe	Thr	Leu	Val	Val	Asp	Thr	Thr	Val	Pro	Ala	Ala	Pro
				2355						2360				2365	
Val	Ile	Thr	Gln	Ala	Ile	Asp	Asp	Val	Gly	Thr	Ile	Thr	Gly	Ala	Ile
				2370						2375				2380	
Gly	Ser	Gly	Gln	Thr	Thr	Asn	Asp	Pro	Leu	Pro	Arg	Leu	Val	Gly	Thr
2385										2395				2400	
Ser	Glu	Pro	Leu	Ala	Thr	Val	Asn	Ile	Tyr	Glu	Gly	Thr	Thr	Leu	Val
				2405						2410				2415	
Gly	Thr	Gly	Thr	Ala	Asp	Ala	Asn	Gly	Asn	Trp	Thr	Val	Asp	Ile	Thr
				2420						2425				2430	
Val	Pro	Leu	Gly	Thr	Gly	Ser	His	Thr	Phe	Thr	Ala	Glu	Ala	Thr	Asp
				2435						2440				2445	

Gln Ala Gly Asn Thr Gly Ala Pro Ser Ala Asp Phe Ser Leu Ile Ile
 2450 2455 2460
 Asp Thr Thr Pro Pro Ala Leu Pro Val Leu Thr Ser Val Thr Asp Asp
 2465 2470 2475 2480
 Val Gly Asn Ala Ala Thr Pro Val Ala Asn Gly Gly Leu Thr Asn Asp
 2485 2490 2495
 Ala Arg Pro Thr Leu Thr Gly Thr Ala Glu Ala Gly Ala Thr Val Thr
 2500 2505 2510
 Ile Tyr Asp Asn Gly Val Gln Ile Gly Thr Ala Val Ala Thr Gly Gly
 2515 2520 2525
 Ala Trp Ser Phe Thr Pro Ser Thr Pro Leu Ala Asp Gly Pro His Asn
 2530 2535 2540
 Leu Thr Phe Ser Ala Thr Asp Ala Val Gly Asn Ala Ser Ala Gln Thr
 2545 2550 2555 2560
 Gly Gly Tyr Thr Ile Asn Val Asp Asp Val Gly Thr Val Thr Gly Pro Val Thr
 2565 2570 2575
 Ile Thr Ser Ile Val Asp Asp Val Gly Thr Val Thr Gly Pro Val Thr
 2580 2585 2590
 Gly Thr Asn Pro Thr Asn Asp Thr Arg Pro Thr Leu Asn Gly Thr Ala
 2595 2600 2605
 Glu Ala Asn Ala Thr Val Arg Ile Tyr Asp Gly Thr Thr Leu Val Gly
 2610 2615 2620
 Thr Val Thr Ala Asp Ala Asn Gly Asn Trp Thr Leu Pro Gln Thr Ser
 2625 2630 2635 2640
 Thr Thr Leu Ile Glu Gly Glu His Asn Phe Thr Ala Thr Ala Thr Asp
 2645 2650 2655
 Ala Ala Gly Asn Thr Ser Ala Pro Ser Pro Ile Ile Thr Ile Asn Val
 2660 2665 2670
 Asp Leu Thr Pro Pro Ala Ala Pro Thr Gly Leu Ala Val Ile Thr Asn
 2675 2680 2685
 Gly Thr Gln Val Thr Gly Thr Ala Glu Ala Gly Ser Thr Val Thr Ile
 2690 2695 2700
 Thr Ser Ser Thr Gly Thr Val Leu Gly Thr Ala Val Ala Asp Gly Ser
 2705 2710 2715 2720
 Gly Asn Phe Ser Ala Thr Leu Thr Pro Pro Gln Thr Gly Gly Glu Ser
 2725 2730 2735
 Leu Ile Val Phe Ala Thr Asp Lys Ala Gly Asn Ala Gly Ile Thr Thr
 2740 2745 2750
 Ser Val Ile Ala Pro Ile Thr Thr Ile Pro Asn Ala Pro Val Ile Ala
 2755 2760 2765
 Asn Ile Asp Asp Asn Val Gly Thr Val Thr Gly Asn Leu Thr Asn Gly
 2770 2775 2780
 Lys Thr Thr Asp Asp Thr Thr Pro Thr Leu Ser Gly Thr Ala Gln Pro
 2785 2790 2795 2800
 Asn Ala Thr Ile Thr Leu Tyr Asn Asn Gly Val Leu Met Gly Thr Val
 2805 2810 2815
 Thr Ala Asn Ala Ser Gly Asn Trp Ser Phe Thr Thr Pro Val Leu Ser
 2820 2825 2830
 Glu Gly Pro His Ala Phe Thr Ala Thr Ala Ser Asn Gly Ser Gly Thr
 2835 2840 2845
 Ser Pro Ile Ser Thr Ser Thr Thr Val Ile Val Asp Leu Thr Ala Pro
 2850 2855 2860
 Thr Ala Pro Thr Gly Thr Phe Asn Ala Asp Gly Ser Val Leu Thr Gly
 2865 2870 2875 2880
 Ser Ala Glu Ala Gly Ser Thr Val Thr Ile Arg Leu Ala Asp Asn Ser
 2885 2890 2895
 Thr Val Thr Ala Thr Ala Asp Ser Asn Gly Ser Trp Ser Tyr Thr Phe
 2900 2905 2910
 Leu Asn Lys Gln Thr Glu Gly Gln Thr Leu Gln Ile Thr Ala Thr Asp
 2915 2920 2925
 Ala Ala Gly Asn Val Ser Leu Pro Gly Ser Ala Leu Ala Pro Val Val

2930				2935				2940							
Pro 2945	Leu	Ser	Ala	Ser	Thr	Asn	Val	Glu	Glu	Leu	Ala	Leu	Thr	Thr	Thr
Ala	Thr	Val	Thr	Asn	Ser	Gln	Tyr	Ser	Asp	Tyr	Gly	Phe	Leu	Leu	Val
2965				2970				2975							
Gly	Ala	Val	Gly	Asn	Val	Leu	Thr	Leu	Leu	Gly	Asn	Asp	Thr	Ala	Gln
2980				2985				2990							
Val	Gly	Phe	Thr	Val	Gly	Asn	Gly	Gly	Ser	Ala	Asp	Ile	Ala	Val	Asn
2995				3000				3005							
Ala	Asn	Ala	Thr	Gly	Ala	Val	Leu	Ser	Leu	Leu	Asn	Thr	Leu	Glu	Leu
3010				3015				3020							
Val	Val	Gln	Arg	Phe	Asp	Ala	Ala	Asn	Asn	Thr	Trp	Thr	Thr	Val	Val
3025				3030				3035							
Asp	Thr	Gly	Gln	Pro	Gln	Phe	Ala	Asp	Leu	Leu	Thr	Leu	Gly	Ala	Thr
3045				3050				3055							
Gly	Val	Ser	Leu	Asn	Leu	Thr	Gly	Leu	Ala	Asp	Gly	Gln	Tyr	Arg	Val
3060				3065				3070							
Leu	Ser	Tyr	Asn	Thr	Asn	Leu	Leu	Ala	Thr	Gly	Ser	Tyr	Thr	Ser	Leu
3075				3080				3085							
Asp	Val	Ala	Val	Lys	Glu	Thr	Ser	Ala	Gly	Thr	Val	Ser	Gly	Glu	Thr
3090				3095				3100							
Asn	Ile	Val	Gly	Asn	Val	Ile	Thr	Asp	Val	Asp	Pro	Thr	Ala	Gly	Ser
3105				3110				3115							
Asp	Asn	Ala	Pro	Ala	Gly	Thr	Thr	Val	Thr	Ala	Val	Thr	Asn	Ala	Gln
3125				3130				3135							
Gly	Ser	Thr	Thr	Ser	Val	Thr	Ala	Asp	Gly	Thr	Val	Ile	Gln	Gly	Gln
3140				3145				3150							
Tyr	Gly	Thr	Leu	Thr	Ile	Asn	Leu	Asp	Gly	Ser	Tyr	Thr	Tyr	Asn	Leu
3155				3160				3165							
Thr	Asn	Thr	Ser	Ala	Ala	Val	Ile	Gly	Arg	Thr	Glu	Asn	Phe	Thr	Tyr
3170				3175				3180							
Thr	Ile	Thr	His	Asn	Gly	Thr	Ser	Ala	Ser	Ala	Asn	Leu	Val	Leu	Ser
3185				3190				3195							
Leu	Gly	Glu	Gly	Thr	Ser	Ser	Ser	Gly	Ile	Val	Ala	Val	Asp	Asp	Thr
3205				3210				3215							
Ala	Ser	Leu	Thr	Phe	Asp	Thr	Thr	Val	Glu	Ala	Ile	Asn	Asn	Gly	Thr
3220				3225				3230							
Ser	Ser	Gln	Gly	Gly	Phe	Thr	Leu	Val	Gly	Ile	Asn	Leu	Gly	Asn	Thr
3235				3240				3245							
Leu	Gly	Leu	Asn	Leu	Leu	Asp	Asp	Leu	Ala	Asn	Pro	Ile	Ile	Tyr	Asn
3250				3255				3260							
Val	Glu	Glu	Gly	Thr	Thr	Arg	Thr	Met	Thr	Val	Gln	Ala	Ser	Val	Gly
3265				3270				3275							
Gly	Val	Ala	Leu	Ala	Ser	Val	Phe	Asp	Leu	Tyr	Ile	Tyr	Lys	Phe	Asn
3285				3290				3295							
Asn	Ala	Thr	Gln	Thr	Phe	Glu	Gln	Met	Arg	Val	Glu	Pro	Gly	Trp	Leu
3300				3305				3310							
Arg	Ala	Pro	Leu	Leu	Gly	Gly	Thr	Ser	Pro	Gln	Leu	Thr	Leu	Asn	Leu
3315				3320				3325							
Pro	Ala	Gly	Glu	Tyr	Leu	Phe	Leu	Leu	Asn	Thr	Ala	Ala	Gly	Ile	Thr
3330				3335				3340							
Ala	Leu	Thr	Ala	Tyr	Thr	Leu	Asn	Val	Leu	Gln	Asp	His	Val	Tyr	Ser
3345				3350				3355							
Val	Ala	Ser	Val	Ser	Glu	Ser	Thr	Thr	Gly	Asp	Val	Leu	Ala	Asp	Asp
3365				3370				3375							
Ile	Ala	Pro	Ala	Gly	Thr	Val	Val	Ser	Asp	Val	Asn	Gly	Val	Ala	Val
3380				3385				3390							
Asn															

Ala Asp His Ile Ser Thr Pro Asp Thr Phe Val Tyr Thr Ile Thr Ala
 3425 3430 3435 3440
 Pro Asp Gly Ser Lys Asp Thr Ala Ser Leu Asn Ile Thr Pro Thr Ala
 3445 3450 3455
 Arg Pro Met Asp Ala Val Asn Asp Val Ser Thr Ala Met Asp Val Thr
 3460 3465 3470
 Thr Val His His Thr Ala Ala Tyr Ser Asp Thr Thr Val Gly Ser Ala
 3475 3480 3485
 Ser Trp Asn Ala Ala Leu Leu Ala Ser Thr Gln Gly Ser Gly Ser Gly
 3490 3495 3500
 Thr Phe Val Val Asp Pro Asn Thr Ala Leu His Asn Val Val Leu Ser
 3505 3510 3515 3520
 Phe Asn Val Ala Ser Leu Leu Thr Leu Thr Gly Leu Thr Val Asp Trp
 3525 3530 3535
 Thr Leu Ser Asn Gly Ala Thr Thr Val Arg Thr Gly Ser Phe Asn Gly
 3540 3545 3550
 Gly Leu Leu Leu Gly Gly Thr Ala Thr Ile Asn Leu Thr Gly Leu Asp
 3555 3560 3565
 Leu Glu Ala Gly Thr Tyr Thr Leu Ser Tyr Thr Gly Lys Met Gly Pro
 3570 3575 3580
 Leu Gly Val Gly Asn Ile Thr Ile Thr Pro Ser Val Thr Gly Thr Ser
 3585 3590 3595 3600
 Tyr Ser Leu Ser Gln Phe Asp Ala Thr Gly Thr His Thr Val Asp Gly
 3605 3610 3615
 Asn Ile Phe Asp Gly Thr Asp Ser Ala Gly Ala Met Asp Gln Leu His
 3620 3625 3630
 Ser Val Asp Thr Arg Val Ser Ile Thr Gly Tyr Asp Gly Val Thr Thr
 3635 3640 3645
 Thr Leu Asp Pro Tyr Thr Gly Ser Thr Met Ser Asn Ile Thr Gly His
 3650 3655 3660
 Tyr Gly Thr Leu Ala Ile Ala Ala Asp Gly Ser Tyr Thr Tyr Thr Leu
 3665 3670 3675 3680
 Asn Pro Gly Ile Ser Leu Ser Thr Ile Thr Ser Lys Glu Val Phe Asn
 3685 3690 3695
 Tyr Thr Leu Thr Asp Ala Asn Gly Val Lys Asp Thr Ala Ser Leu Thr
 3700 3705 3710
 Ile Asp Met Ala Pro Lys Phe Val Ser Ser Glu His Asn Asp Val Ile
 3715 3720 3725
 Ser Gly Thr Ala Tyr Gly Asp Thr Leu Ile Tyr Gln Val Leu Asn Asn
 3730 3735 3740
 Thr Ala Gly Asn Ala Thr Ala Gly Asn Ser Thr Gly Asp His Trp Thr
 3745 3750 3755 3760
 Asn Phe Ser Leu Thr Gln Gly Asp Lys Ile Asp Ile Gly Asp Leu Leu
 3765 3770 3775
 Val Gly Trp Asn Gly Ser Ala Ser Thr Leu Gly Asn Tyr Val Ser Val
 3780 3785 3790
 Ser Gln Ser Gly Asn Asn Thr Val Ile Ser Ile Asp Arg Asp Gly Thr
 3795 3800 3805
 Gly Ala Ala Tyr Thr Lys Ser Thr Leu Val Thr Leu Asp Asn Val Gln
 3810 3815 3820
 Thr Thr Tyr Asp Glu Leu Val Asn Gln Gln His Ile Ile Thr
 3825 3830 3835

<210> 10138

<211> 742

<212> PRT

<213> Enterobacter cloacae

<400> 10138

Lys Pro His His Pro Asp Arg Gly Asp Pro Ala Met Lys Gln Arg Asp
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			20					25					30		
Gln	Ala	Phe	Gly	Tyr	Val	Ala	Thr	Arg	Tyr	Arg	Val	Ala	Cys	Ser	Pro
		35					40					45			
Gly	Ser	Leu	Val	Ala	Gly	Ala	Pro	Trp	Leu	Lys	Gly	Lys	Pro	Met	Val
	50					55					60				
Pro	Ala	Leu	Thr	Gln	Leu	Ala	Arg	Glu	Ala	Gly	Leu	Thr	Phe	Gln	Leu
65					70				75						80
Leu	Thr	Ala	Asp	Gln	Gln	Ser	Ile	Asn	Ser	Trp	Arg	Leu	Pro	Val	Val
			85					90						95	
Val	Glu	Leu	Asn	Asp	Gly	Lys	Ile	Gly	Val	Ile	Asp	Asn	Phe	Asp	Gly
			100					105					110		
Glu	Asp	Thr	Leu	Glu	Val	Ser	Phe	Asp	Asp	Ser	Thr	His	Thr	Asn	
		115					120					125			
Arg	Leu	Ser	Met	Ser	Ala	Met	Leu	Pro	Ala	Ile	Arg	His	Val	Ile	Ala
		130				135					140				
Leu	Arg	Pro	Leu	Ala	Ala	Leu	Lys	Asp	Ser	Arg	Val	Asp	Ala	Tyr	Ile
145					150					155					160
Ser	Lys	Tyr	Arg	Pro	Asp	Trp	Leu	Tyr	Arg	Leu	Val	Met	Arg	Asp	Leu
				165					170					175	
Arg	Pro	Tyr	Ser	Trp	Val	Met	Leu	Ala	Ala	Leu	Phe	Ile	Asn	Val	Leu
			180					185					190		
Ser	Leu	Ser	Gly	Ile	Val	Phe	Ser	Met	Gln	Val	Tyr	Asp	Arg	Val	Ile
		195					200					205			
Pro	Ala	Gln	Ser	Tyr	Pro	Thr	Leu	Tyr	Val	Leu	Thr	Ile	Gly	Val	Leu
		210				215					220				
Ile	Ala	Thr	Leu	Phe	Gly	Phe	Val	Leu	Arg	Val	Ala	Arg	Gly	His	Ile
225					230					235					240
Met	Asp	Leu	Leu	Gly	Lys	Arg	Ser	Asp	Leu	Arg	Val	Ser	Asp	Arg	Val
				245					250					255	
Phe	Gly	His	Ala	Leu	Arg	Leu	Arg	His	Ser	Ala	Ile	Pro	Arg	Ser	Thr
			260					265					270		
Gly	Ser	Phe	Ile	Ser	Gln	Leu	Arg	Glu	Leu	Glu	Gln	Ile	Arg	Glu	Met
		275					280					285			
Val	Thr	Ser	Ser	Thr	Ile	Ser	Thr	Ile	Val	Asp	Leu	Pro	Phe	Phe	Ile
		290				295					300				
Leu	Phe	Val	Ile	Val	Leu	Ala	Ile	Ile	Ala	Pro	Gln	Leu	Ala	Trp	Ile
305					310					315					320
Ala	Pro	Val	Ala	Ala	Val	Ile	Met	Val	Leu	Pro	Gly	Leu	Leu	Leu	Gln
				325					330					335	
Lys	Lys	Leu	Ala	Glu	Leu	Ala	Lys	Gln	Ser	Ala	His	Glu	Ser	Thr	Leu
			340					345					350		
Arg	Asn	Ala	Val	Leu	Val	Glu	Ser	Val	Gln	Gly	Leu	Glu	Asp	Ile	Lys
		355					360						365		
Leu	Met	Gln	Ala	Glu	Asn	Arg	Phe	Leu	Gln	Gln	Trp	Asn	Ser	Tyr	Ile
		370				375					380				
Gln	Ile	Thr	Ala	Glu	Ser	Gly	Leu	Arg	Thr	Arg	Glu	Leu	Thr	Gln	Asn
385					390					395					400
Leu	Ile	Ser	Trp	Gly	Met	Thr	Ile	Gln	Ser	Leu	Val	Tyr	Ala	Gly	Val
				405					410					415	
Ile	Val	Val	Gly	Ala	Pro	Met	Val	Ile	Asp	Gly	Thr	Leu	Thr	Thr	Gly
			420					425					430		
Ser	Val	Val	Ala	Ala	Ser	Met	Leu	Ala	Ser	Arg	Met	Ile	Ala	Pro	Met
		435					440					445			
Ala	Thr	Leu	Cys	Gly	Val	Leu	Ala	Arg	Trp	Gln	Gln	Val	Lys	Ala	Ala
		450				455					460				
Lys	Glu	Gly	Leu	Asp	Ser	Ile	Met	Gln	Leu	Pro	Thr	Glu	Asn	Gln	Arg
465					470					475					480
Glu	Glu	Thr	Pro	Ile	Arg	Gln	Asp	Val	Leu	Arg	Gly	His	Tyr	Leu	Phe
				485					490					495	
Glu	Gln	Ala	Gln	Phe	Arg	Tyr	His	Pro	Glu	Asp	Pro	Arg	Met	Ala	Leu

500					505					510					
Arg	Ile	Asn	Arg	Leu	Glu	Ile	Lys	Ala	Gly	Glu	Lys	Val	Ala	Ile	Leu
515					520					525					
Gly	Arg	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Leu	Gln	Ala	Met	Ala	Gly
530					535					540					
Gly	Met	Asp	Leu	Ala	Gly	Gly	Glu	Leu	Arg	Leu	Asp	Asn	Leu	Ser	Leu
545					550					555					
Pro	His	Leu	Asp	Val	Ala	Asp	Val	Arg	Arg	Asn	Val	Gly	Phe	Met	Thr
565					570					575					
Gln	Asn	Ala	Arg	Leu	Phe	Tyr	Gly	Thr	Leu	Arg	Glu	Asn	Ile	Thr	Leu
580					585					590					
Gly	Met	Pro	Arg	Ala	Thr	Asp	Lys	Glu	Ile	Phe	Glu	Val	Leu	Glu	Met
595					600					605					
Cys	Gly	Ala	Ala	Ser	Phe	Val	Gln	Lys	Leu	Pro	Lys	Gly	Leu	Asp	Tyr
610					615					620					
Pro	Ile	Met	Glu	Asn	Gly	Val	Gly	Leu	Ser	Gly	Gly	Gln	Arg	Gln	Ser
625					630					635					
Ile	Leu	Leu	Ala	Arg	Met	Leu	Leu	Arg	Asp	Pro	Asn	Ile	Val	Leu	Met
645					650					655					
Asp	Glu	Pro	Thr	Ala	Ser	Leu	Asp	Glu	His	Thr	Glu	Arg	Glu	Phe	Ile
660					665					670					
Gln	Arg	Leu	Gly	Ala	Trp	Leu	Gly	Asn	Arg	Thr	Leu	Val	Val	Ala	Thr
675					680					685					
His	Arg	Val	Pro	Val	Leu	Glu	Leu	Val	Glu	Arg	Val	Val	Val	Leu	Lys
690					695					700					
Asp	Gly	Met	Leu	Val	Met	Asp	Ala	Pro	Lys	Ala	Gln	Ala	Leu	Asn	Asn
705					710					715					
Ser	Arg	Met	Gln	Gln	Gln	Gln	Ala	Thr	Gly	Arg	Glu	Trp	Lys	Asn	
725					730					735					
Glu	Asn	Gln	Ser	Ala											
740															

<210> 10139

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 10139

Thr	Asp	Asn	Thr	Gly	Leu	Tyr	Phe	Ala	Gly	Gln	Arg	Glu	Lys	Gln	Thr
1				5					10					15	
Ile	Ser	Ile	Ser	Leu	His	Thr	Ser	Thr	Arg	Asn	Thr	Ser	Glu	Ala	Ser
			20					25					30		
Pro	Met	Thr	Leu	Gln	Gln	Ala	Leu	Arg	Lys	Pro	Thr	Thr	Pro	Gly	Glu
			35				40					45			
Val	Leu	Gln	Tyr	Glu	Tyr	Leu	Glu	Pro	Leu	Asn	Leu	Lys	Ile	Asn	Asp
	50				55					60					
Leu	Ala	Glu	Met	Leu	Asn	Val	His	Arg	Asn	Thr	Val	Ser	Ala	Leu	Val
65					70					75					80
Asn	Asn	Asn	Arg	Lys	Leu	Thr	Ala	Asp	Met	Ala	Ile	Lys	Leu	Ala	Lys
			85					90						95	
Ala	Leu	Asn	Thr	Thr	Ile	Glu	Phe	Trp	Leu	Asn	Leu	Gln	Leu	Asn	Val
			100					105					110		
Asp	Ile	Trp	Glu	Ala	Gln	Ser	Asn	Ser	Arg	Thr	Gln	Glu	Glu	Leu	Ser
	115						120					125			
Arg	Ile	Lys	Thr	Val	Ala	Glu	Val	Met	Ala	Lys	Arg	Lys	Ser	Gly	Lys
	130					135					140				
Pro	Asp	Val	Ala												
145															

<210> 10140

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 10140

Gln	Ser	Ser	Asn	Ile	Asn	Pro	Val	Tyr	Leu	Asn	Phe	Tyr	Leu	Leu	Lys
1			5						10					15	
Asn	Glu	Gly	Ser	Gln	His	Lys	Glu	Ser	Ala	Met	Lys	Ile	Val	Ile	Ile
			20					25					30		
Gly	Ala	Ser	Gly	Thr	Val	Gly	Arg	Ala	Val	Thr	Glu	Glu	Leu	Ser	Arg
		35					40				45				
Arg	His	Glu	Val	Ile	Ser	Val	Gly	Arg	Thr	Gln	Gly	Asp	His	Gln	Val
	50					55					60				
Asp	Ile	Thr	Ser	Gln	Ala	Ser	Val	Gln	Ala	Leu	Phe	Glu	Lys	Ile	Gly
65				70						75					80
Pro	Val	Asp	Ala	Ile	Val	Ser	Ala	Ser	Gly	Gly	Val	His	Phe	Gly	Pro
			85						90					95	
Leu	Ala	Thr	Met	Thr	Asp	Gly	Glu	Phe	Asn	Arg	Gly	Leu	Gln	Asp	Lys
			100					105					110		
Leu	Leu	Gly	Gln	Ile	Arg	Leu	Ala	Leu	Thr	Gly	Gln	His	Tyr	Leu	Asn
		115					120					125			
Glu	Gly	Gly	Ser	Ile	Thr	Leu	Ile	Ser	Gly	Ile	Val	Ala	His	Glu	Pro
		130				135					140				
Ile	Ala	Gln	Gly	Val	Asn	Ala	Thr	Thr	Val	Asn	Ala	Ala	Leu	Glu	Gly
145				150						155					160
Phe	Val	Arg	Ala	Ala	Ala	Cys	Glu	Leu	Pro	Arg	Gly	Ile	Arg	Ile	Asn
			165						170					175	
Leu	Ile	Ser	Pro	Thr	Val	Leu	Thr	Glu	Ser	Val	Glu	Ala	Tyr	Asp	Gly
			180					185					190		
Phe	Phe	Pro	Gly	Phe	Glu	Ser	Val	Pro	Ala	Ala	Thr	Val	Ala	Gln	Ala
		195					200					205			
Tyr	Arg	Arg	Ser	Val	Glu	Gly	Val	Gln	Ser	Gly	Arg	Val	Tyr	Lys	Val
	210					215					220				
Gly	Tyr														
225															

<210> 10141

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10141

Gly	Asn	Ile	Met	Ser	Leu	Pro	Leu	Ile	Ser	Pro	Gln	Gln	Ala	Asn	Ala
1			5						10					15	
Leu	Ile	Ala	Glu	Gly	Ala	Lys	Leu	Ile	Asp	Ile	Arg	Asp	Pro	Asp	Glu
			20					25					30		
Tyr	Ala	Arg	Glu	His	Ile	Pro	Ala	Ala	His	Ser	Ile	Pro	Leu	Asp	Ser
		35					40					45			
Leu	Pro	Gly	Gly	Leu	Asn	Ala	Ala	Pro	Gly	Glu	Thr	Val	Ile	Phe	His
	50				55						60				
Cys	Gln	Ser	Gly	Ala	Arg	Thr	Ser	Asn	Asn	Ala	Ala	Arg	Leu	Ala	Gln
65				70					75						80
Ala	Ala	Ser	Pro	Ala	Asn	Ala	Cys	Val	Val	Glu	Gly	Gly	Ile	Gln	Gly
			85						90					95	
Trp	Lys	Gln	Ala	Gly	Leu	Leu	Thr	Val	Glu	Asp	Arg	Ser	Gln	Pro	Leu
			100					105					110		
Pro	Leu	Met	Arg	Gln	Val	Gln	Ile	Ala	Ala	Gly	Leu	Leu	Ile	Leu	Cys
		115					120					125			
Gly	Val	Val	Leu	Gly	Tyr	Ser	Val	Ser	Ser	Gly	Phe	Phe	Leu	Leu	Ser
	130					135					140				
Gly	Phe	Val	Gly	Ala	Gly	Leu	Leu	Phe	Ala	Gly	Val	Thr	Gly	Phe	Cys
145					150					155					160

Gly Met Ala Arg Leu Leu Lys Val Met Pro Trp Asn Arg Arg Thr
 165 170 175

<210> 10142

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10142

Met Ala Val Thr Leu Lys Leu Ala Thr Leu Arg Glu Val Ser Phe Ile
 1 5 10 15
 Ile Phe Asn Trp Leu Ala Cys Thr Glu Leu Phe Met Gly Phe Trp Arg
 20 25 30
 Val Leu Phe Thr Ile Ile Leu Pro Pro Leu Gly Val Leu Leu Gly Lys
 35 40 45
 Gly Leu Gly Trp Ala Phe Ile Leu Asn Ile Leu Leu Thr Ile Leu Gly
 50 55 60
 Tyr Phe Pro Gly Leu Ile His Ala Phe Trp Val Gln Thr Lys Ser
 65 70 75 80

<210> 10143

<211> 591

<212> PRT

<213> Enterobacter cloacae

<400> 10143

Phe His Gln Arg Gln Ala Thr Pro Asn Asp Arg Pro Asp Gln Pro His
 1 5 10 15
 Gln Pro Pro Ala Thr Gly Gly Ala Arg Ser Ala Gly Gly Arg His Arg
 20 25 30
 Asp Gly Leu Arg Ala Gly Leu Trp Arg Ala Arg Arg Ser Gly Gly Gly
 35 40 45
 Asp Asp Arg Gly Asp Gln Arg Gly Thr Gly Asp Arg Glu Arg Arg Gln
 50 55 60
 Pro Ser Ala Gly Asn Ser Arg Leu Arg Ala Arg His Arg Ser Gly Ser
 65 70 75 80
 Ala Val Ala Gly Ala Ala Val Pro Ala Ala Asp Arg Arg Arg Arg His
 85 90 95
 Leu Gly Gln Gln Gln His Gln His Arg Ile Thr Gly Thr Arg Ile Cys
 100 105 110
 Leu Gln Arg Gly Glu Ser Ile Met Thr Thr Leu Phe Asn Gln Pro Leu
 115 120 125
 Asn Val Ile Asn Val Gly Ile Ala Met Phe Ser Asp Asp Leu Lys Lys
 130 135 140
 Gln His Val Pro Val Thr Gln Leu Asp Trp Thr Pro Pro Gly Gln Gly
 145 150 155 160
 Asn Met Gln Val Val Lys Ala Leu Asp Gln Leu Ala Glu Lys Pro Leu
 165 170 175
 Ala Glu Lys Ile Ala Ala Ala Asn Lys Ile Ala Leu Glu Arg Ile Ile
 180 185 190
 Gln Ser His Pro Val Leu Val Gly Tyr Asp Gln Ala Ile Asn Val Val
 195 200 205
 Pro Gly Met Thr Arg Thr Thr Ile Leu His Ala Gly Pro Pro Val Thr
 210 215 220
 Trp Glu Asn Met Cys Gly Ala Met Lys Gly Ala Val Thr Gly Ala Leu
 225 230 235 240
 Val Phe Glu Gly Leu Ala Thr Asp Leu Glu Asp Ala Ala Arg Leu Ala
 245 250 255
 Ala Ser Gly Asp Ile Thr Phe Ser Pro Cys His Glu His Asp Cys Val
 260 265 270
 Gly Ser Met Ala Gly Val Thr Ser Ala Ser Met Phe Met His Ile Val

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<210> 10144
<211> 337
<212> PRT
<213> Enterobacter cloacae
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<400> 10144															
Arg	Ser	Ala	Val	Met	Ser	Gln	Thr	Thr	Glu	Lys	Lys	Pro	Arg	Leu	Thr
1				5					10					15	
Thr	Ser	Ala	Met	Ile	Ala	Ser	Ile	Ala	Glu	Glu	Gly	Gln	Glu	Thr	Arg
			20					25					30		
Ala	Ala	Pro	Phe	Gly	His	Ala	Leu	Val	Lys	Leu	Ala	Glu	Gln	Arg	Pro
		35					40					45			
Glu	Val	Val	Gly	Met	Thr	Ala	Asp	Leu	Ser	Lys	Tyr	Thr	Asp	Leu	His
	50					55					60				
Ile	Phe	Ala	Gln	Ala	Tyr	Pro	Glu	Arg	Phe	Phe	Gln	Met	Gly	Met	Ala
65					70					75				80	
Glu	Gln	Leu	Leu	Met	Gly	Ala	Ala	Gly	Gly	Met	Ala	Lys	Glu	Gly	Phe
				85					90					95	
Ile	Pro	Phe	Ala	Thr	Thr	Tyr	Ala	Val	Phe	Ala	Thr	Arg	Arg	Ala	Tyr
			100					105					110		
Asp	Phe	Ile	His	Gln	Val	Ile	Ala	Glu	Glu	His	Leu	Asn	Val	Lys	Ile

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      115      120      125
Cys Ala Ala Leu Pro Gly Leu Thr Thr Gly Tyr Gly Pro Ser His Gln
130      135      140
Ala Thr Glu Asp Ile Ala Ile Met Arg Gly Ile Pro Gly Met Thr Ile
145      150      155      160
Ile Asp Pro Cys Asp Ala Ile Asp Thr Glu Gln Ala Val Pro Ala Met
      165      170      175
Ala Ala His Asp Gly Pro Val Tyr Met Arg Leu Leu Arg Gly Lys Val
      180      185      190
Pro Val Val Leu Asp Gln Tyr Asn Tyr Gln Phe Lys Ile Gly Lys Ala
      195      200      205
Ala Leu Leu Glu Glu Gly Asn Asp Val Leu Ile Val Ala Ser Gly Leu
      210      215      220
Met Thr Met Arg Ala Leu Glu Ala Ala Lys Gln Leu Arg Lys Asp Asn
225      230      235      240
Val Ser Val Ala Val Leu His Ser Pro Thr Ile Lys Pro Leu Asp Glu
      245      250      255
Glu Thr Ile Leu Ala Gln Ala Ala Lys Pro Gly Arg Leu Val Ile Val
      260      265      270
Ala Glu Asn His Ser Ser Val Gly Gly Leu Cys Glu Ala Val Ala Ser
      275      280      285
Leu Leu Met Arg Asn Arg Val Asn Val Asp Phe Asp Thr Val Ala Leu
      290      295      300
Pro Asp Ala Phe Leu Asp Ala Gly Ala Leu Pro Thr Leu His Asp Arg
305      310      315      320
Tyr Gly Ile Ser Thr Thr Ala Met Val Glu Lys Ile Arg Arg Arg Leu
      325      330      335

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<210> 10145

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10145

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Phe Asn Val Arg Cys Glu Gly Val Leu Gly Gly Lys Gly Tyr Ala Thr
1      5      10      15
Ala Gly Gln Arg Glu Ala Glu His Lys Thr Gln Ile Val Ser Gly Tyr
      20      25      30
Leu Trp Phe Asn Cys His Ile Glu Arg Asp Ala Cys Phe Leu Lys Leu
      35      40      45
Pro Ala Ile Gly Gly Asn Val Arg Gly Arg Ala Pro Ala Asp Thr Pro
      50      55      60
Met Ser Asp Gln Leu Thr Gly Met Arg Arg Cys Ala Val Cys Arg Gln
65      70      75      80
Ile Gly Arg

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<210> 10146

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10146

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Thr Met Asn Ile Asp Thr Asp Arg Leu Asp Asp Val Asn Ile Met Thr
1      5      10      15
Pro Ser Val Arg Arg Leu Asp Ala Ser Val Ala Ala Val Phe Lys Glu
      20      25      30
Ala Ile Ala Arg Glu Ile Gly Val Asp Arg Lys Ala Leu Ile Val Asp
      35      40      45

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Phe Ser Lys Ile Asp Phe Ile Asp Ser Ser Gly Leu Gly Ala Leu Val
 50 55 60
 Ser Leu Leu Lys Met Met Asn Gly Lys Gly Glu Met Met Leu Cys Ala
 65 70 75 80
 Leu Asn Pro Gly Ile Arg Asn Met Phe Thr Leu Thr Arg Met Asp Arg
 85 90 95
 Ile Phe Arg Ile Cys Pro Asp Arg Ala Thr Ala Leu Ser His Leu Asn
 100 105 110
 Gln

<210> 10147

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10147

Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
 1 5 10 15
 Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Val
 20 25 30
 Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
 35 40 45
 Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
 50 55 60
 Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
 65 70 75 80
 Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
 85 90 95

<210> 10148

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10148

Lys Pro Phe Phe Thr Asp Ile Val Thr Phe Gln His Val Arg Gln Leu
 1 5 10 15
 Leu Leu Arg Ile Val Arg Val Glu Val Gly Lys Glu Thr Glu Ile Ala
 20 25 30
 Thr Val Asn Thr Asn Asn Leu Asn Ile Ile Ala Ser Gln Arg Ser Arg
 35 40 45
 Arg Ala Gln His Ile Ala Val Ala Thr Asp His His Gly Glu Ile Arg
 50 55 60
 Leu Leu Ala Asn Phe Arg Gln Arg Ala Gly Ser Asp Ala Phe Lys Leu
 65 70 75 80
 Gln Leu Leu Gly Asn Leu Leu Leu Asp His His Phe Ile Ala Phe Thr
 85 90 95
 Thr Gln Pro Ala Ile Gln His Phe Met Cys Arg Gln Cys Gly Arg Val
 100 105 110
 Thr Arg Met Ala Asp Asp Pro Asn Thr Pro Glu Met Ile Ile His Phe
 115 120 125
 Leu Glu Val Leu Val Pro Asp Glu
 130 135

<210> 10149

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 10149

Asn	Ile	Gly	Ser	Leu	Asn	Met	Ser	Ala	Thr	Ala	Leu	Val	Thr	Glu	Phe
1				5					10					15	
Leu	Leu	Ala	Ala	Glu	Glu	Gly	Asn	Ile	Asp	Ala	Leu	Lys	Ala	Cys	Leu
		20					25						30		
Glu	Lys	Gly	Val	Asp	Ile	Asn	Val	Thr	Asn	Arg	Gln	Lys	Arg	Thr	Ala
		35				40						45			
Ile	Ile	Ile	Ala	Ser	Leu	Lys	Lys	His	Tyr	Ala	Cys	Val	Glu	Phe	Leu
	50					55					60				
Ile	Ala	Ala	Gly	Ala	Asp	Ile	Asp	Lys	Gln	Asp	Gln	Thr	Cys	Phe	Asn
65					70				75						80
Pro	Phe	Leu	Ile	Ser	Cys	Leu	Thr	Asn	Asp	Leu	Thr	Leu	Leu	Arg	Ile
				85				90						95	
Val	Leu	Pro	Ala	Asp	Pro	Asp	Leu	Asp	Arg	Leu	Thr	Arg	Phe	Gly	Gly
			100					105					110		
Val	Gly	Ile	Thr	Pro	Ala	Ser	Glu	Lys	Gly	His	Val	Glu	Ile	Val	Arg
		115					120					125			
Glu	Leu	Leu	Glu	Lys	Thr	Asp	Ile	Asn	Val	Asn	His	Thr	Asn	Phe	Val
	130					135					140				
Gly	Trp	Thr	Pro	Leu	Leu	Glu	Ala	Ile	Val	Leu	Asn	Asp	Gly	Gly	Ala
145					150					155					160
Lys	Gln	Gln	Glu	Ile	Val	Lys	Leu	Leu	Leu	Asp	His	Gly	Ala	Asn	Pro
				165					170					175	
His	Met	Thr	Asp	Lys	Tyr	Gly	Lys	Thr	Pro	Leu	Glu	Leu	Ala	Arg	Glu
			180					185					190		
Lys	Gly	Phe	Asn	Ala	Ile	Ala	Asp	Leu	Leu	Leu	Ala	Ala	Gly	Ala	
		195					200					205			

<210> 10150

<211> 550

<212> PRT

<213> Enterobacter cloacae

<400> 10150

Arg	Ile	Arg	Ser	Ala	Phe	Pro	Trp	Leu	Ala	Val	Thr	Glu	Lys	Thr	His
1			5						10					15	
Cys	Tyr	Arg	Arg	Ala	Phe	Ser	Thr	Thr	Ala	Ala	Pro	Phe	Tyr	Leu	Lys
			20					25					30		
Gln	Val	Lys	Ile	Met	Pro	Thr	Lys	Ile	Val	Ile	Lys	Lys	Asn	Thr	Tyr
		35					40					45			
Phe	Asp	Ser	Val	Ser	Leu	Met	Ser	Val	Ser	Thr	Lys	Ala	Asn	Lys	Leu
	50					55					60				
Pro	Gly	Val	Glu	Gln	Ala	Phe	Val	Ala	Met	Ala	Thr	Glu	Met	Asn	Lys
65					70					75					80
Gly	Val	Leu	Lys	Asn	Leu	Gly	Leu	Leu	Thr	Pro	Glu	Leu	Ala	Asp	Ala
				85					90					95	
Lys	Asn	Gly	Asp	Leu	Met	Ile	Val	Ile	Lys	Gly	Asp	Ala	Ala	Asn	Asp
			100				105						110		
Glu	Thr	Leu	Ala	Ala	Ile	Glu	Ala	Leu	Phe	Thr	Arg	Lys	Glu	Arg	Thr
		115					120					125			
Gly	Ser	His	Glu	Ala	Arg	Tyr	Ala	Ser	Ile	Ala	Ser	Ala	Lys	Thr	His
	130					135					140				
Arg	Pro	Asp	Ser	Asn	Leu	Ala	Val	Ile	Ser	Val	Asn	Gly	Thr	Phe	Ala
145					150					155					160
Ala	Arg	Glu	Ala	Arg	Gln	Ala	Leu	Glu	Asn	Asp	Leu	Asn	Val	Met	Leu
				165					170					175	
Phe	Ser	Asp	Asn	Val	Ser	Leu	Asp	Asp	Glu	Leu	Ala	Leu	Lys	Gln	Leu
			180					185					190		
Ala	His	Glu	Lys	Gly	Leu	Leu	Met	Met	Gly	Pro	Asp	Cys	Gly	Thr	Ala
		195					200					205			

Ile Ile Asn Gly Ala Gly Leu Cys Phe Ala Asn Ala Val Arg Arg Gly
 210 215 220
 Pro Ile Gly Ile Val Gly Ala Ser Gly Thr Gly Ser Gln Glu Leu Ser
 225 230 235 240
 Val Arg Ile His Glu Phe Gly Gly Gly Val Ser Gln Leu Ile Gly Thr
 245 250 255
 Gly Gly Arg Asp Leu Ser Glu Lys Ile Gly Gly Leu Met Met Leu Asp
 260 265 270
 Ala Ile Asp Met Leu Glu Ala Asp Asp Ala Thr Arg Val Ile Ala Leu
 275 280 285
 Ile Ser Lys Pro Pro Ala Pro Ala Val Ala Glu Lys Val Leu Ala Arg
 290 295 300
 Ala Arg Ala Cys Arg Lys Pro Val Val Val Cys Phe Leu Gly Arg Asn
 305 310 315 320
 Glu Pro Pro Ala Asp Glu Asp Gly Leu Gln Phe Ala Arg Gly Thr Lys
 325 330 335
 Glu Ala Ala Leu Lys Ala Val Leu Leu Thr Gly Ile Lys Lys Asp Asp
 340 345 350
 Leu Asp Leu His Pro Leu Asn Trp Pro Leu Ile Glu Glu Val Arg Thr
 355 360 365
 Arg Leu Thr Ser Gln Gln Lys Tyr Ile Arg Gly Leu Phe Cys Gly Gly
 370 375 380
 Thr Leu Cys Asp Glu Ala Met Phe Ala Ala Leu Glu Lys Phe Asp Asp
 385 390 395 400
 Val Tyr Ser Asn Ile Gln Pro Asp Pro Ala Arg Arg Leu Lys Asp Ile
 405 410 415
 Ser Val Ser Gln Ala His Thr Phe Leu Asp Phe Gly Asp Asp Asp Phe
 420 425 430
 Thr Asn Gly Lys Pro His Pro Met Ile Asp Pro Thr Asn Arg Ile Ser
 435 440 445
 Arg Leu Leu Gln Glu Ala Arg Asp Pro Gln Val Gly Val Ile Val Met
 450 455 460
 Asp Phe Val Leu Gly Phe Gly Ala His Asp Asp Pro Val Gly Val Met
 465 470 475 480
 Ile Glu Ala Ile Lys Glu Ala Gln Ala Ile Ala Asn Ala Asp Asn Arg
 485 490 495
 Pro Leu Glu Ile Leu Gly Tyr Val Leu Gly Thr Asp Gln Asp Pro Gln
 500 505 510
 Ser Leu Ala Gln Gln Cys Gln Leu Leu Thr Asp Ala Gly Val Ile Trp
 515 520 525
 Ala Ser Ser Ser Thr Asn Thr Gly Leu Leu Ala Arg Glu Phe Val Cys
 530 535 540
 Lys Gly Glu Lys Ala
 545 550

<210> 10151

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 10151

Gly His Gln Asn Ala Pro Ser Lys Gly Asn Lys Met Lys Glu Leu Met
 1 5 10 15
 Val Val Ala Ile Gly Gly Asn Ser Ile Ile Lys Asp Asn Ala Ser Gln
 20 25 30
 Ser Ile Glu His Gln Ala Gln Ala Val Lys Ala Val Ala Glu Ser Val
 35 40 45
 Leu Glu Met Leu Ala Ser Asp Tyr Asp Ile Val Leu Thr His Gly Asn
 50 55 60
 Gly Pro Gln Val Gly Leu Asp Leu Arg Arg Ala Glu Ile Ala His Glu
 65 70 75 80

Arg Glu Gly Leu Pro Leu Thr Pro Leu Ala Asn Cys Val Ala Asp Thr
 85 90 95
 Gln Gly Gly Ile Gly Tyr Leu Ile Gln Gln Ala Leu Asn Asn Arg Leu
 100 105 110
 Ala Ala Arg Gly Glu Gln Lys Ala Val Thr Val Val Thr Gln Val Glu
 115 120 125
 Val Asp Lys Asn Asp Pro Gly Phe Thr His Pro Thr Lys Pro Ile Gly
 130 135 140
 Ala Phe Phe Ser Glu Ala Gln Arg Asp Glu Leu Gln Leu Ala His Pro
 145 150 155 160
 Asp Trp His Phe Val Glu Asp Ser Gly Arg Gly Tyr Arg Arg Val Val
 165 170 175
 Ala Ser Pro Gln Pro Leu Arg Ile Val Glu Ala Asp Ala Ile Lys Ala
 180 185 190
 Leu Thr Gln Lys Gly Phe Val Val Ile Gly Ala Gly Gly Gly Gly Ile
 195 200 205
 Pro Val Val Arg Ser Glu Gln Gly Asp Tyr Gln Ser Val Asp Ala Val
 210 215 220
 Ile Asp Lys Asp Leu Ser Thr Ala Leu Leu Ala Arg Glu Ile Arg Ala
 225 230 235 240
 Asp Val Leu Val Ile Thr Thr Gly Val Glu Lys Val Cys Val Asn Phe
 245 250 255
 Gly Lys Pro Asn Gln Gln Ala Leu Asp Ile Val Asn Val Ala Gln Met
 260 265 270
 Thr Arg Tyr Met Asp Glu Gly His Phe Pro Ala Gly Ser Met Leu Pro
 275 280 285
 Lys Ile Val Ala Ser Leu Glu Phe Leu Arg His Gly Gly Arg Arg Val
 290 295 300
 Ile Ile Thr Ser Pro Asp Cys Leu Pro Ala Ala Leu Arg Gly Glu Thr
 305 310 315 320
 Gly Thr His Ile Ile Asn Glu Gly Arg
 325 330

<210> 10152

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 10152

Val Met Ser Arg Ile Glu Gln Ala Val Pro Tyr Ile Lys Ala Lys Lys
 1 5 10 15
 Thr Asn Tyr Arg Phe Val Val Leu Ala Leu Ile Phe Ile Val Tyr Ala
 20 25 30
 Ile Asn Tyr Ala Asp Arg Thr Asn Ile Gly Ala Val Leu Pro Phe Ile
 35 40 45
 Ile Asp Glu Phe His Ile Asn Asn Phe Glu Ala Gly Ala Ile Ala Ser
 50 55 60
 Met Phe Phe Leu Gly Tyr Ala Leu Ser Gln Ile Pro Ala Gly Phe Phe
 65 70 75 80
 Ile Ala Lys Lys Gly Ile Arg Gly Met Val Ala Leu Ser Ile Phe Gly
 85 90 95
 Phe Ser Ala Phe Thr Trp Leu Met Gly Thr Ala Thr Ser Val Leu Gly
 100 105 110
 Leu Lys Cys Ile Arg Leu Gly Leu Gly Leu Thr Glu Gly Pro Cys Pro
 115 120 125
 Val Gly Leu Ala Ser Thr Ile Asn Asn Trp Phe Pro Pro Lys Glu Lys
 130 135 140
 Ala Thr Ala Thr Gly Val Tyr Ile Ala Ala Thr Met Phe Ala Pro Ile
 145 150 155 160
 Leu Val Pro Pro Leu Ala Val Trp Ile Ala Met Thr Trp Gly Trp Arg
 165 170 175

Trp Val Phe Phe Ser Phe Ala Ile Pro Gly Leu Val Ile Ala Val Leu
 180 185 190
 Trp Tyr Leu Leu Val Arg Thr Arg Pro Ser Glu Ser Ala Phe Val Ser
 195 200 205
 Lys Ala Glu Leu Glu Thr Ile Thr Ala Gly Gln Glu Thr Pro Asp Ala
 210 215 220
 Arg Arg Glu Asn Ile Val Ile Ser Pro Gly Phe Ala Arg Leu Asp Arg
 225 230 235 240
 Leu Ile Arg Val Arg Glu Leu Ala Pro Val Ser Thr Val Lys Gly Leu
 245 250 255
 Phe Thr Ser Lys Asn Ile Leu Gly Asp Cys Leu Ala Tyr Phe Met Met
 260 265 270
 Val Ser Val Leu Tyr Gly Leu Leu Thr Trp Ile Pro Leu Tyr Leu Val
 275 280 285
 Lys Glu Lys Gly Phe Thr Phe Met Ser Met Gly Leu Val Ala Ser Met
 290 295 300
 Pro Cys Ile Gly Gly Phe Ile Gly Ala Ile Phe Gly Gly Tyr Val Ser
 305 310 315 320
 Asp Lys Leu Leu Gly Arg Arg Arg Lys Pro Thr Met Met Phe Thr Ala
 325 330 335
 Ile Ser Thr Val Leu Met Met Val Ile Met Leu Asn Ile Pro Gln Ser
 340 345 350
 Thr Val Ala Val Cys Val Gly Leu Phe Phe Val Gly Leu Cys Leu Asn
 355 360 365
 Ile Gly Trp Pro Ala Phe Thr Ala Tyr Gly Met Ala Val Ala Asp Ser
 370 375 380
 Lys Thr Tyr Pro Ile Ala Ala Ser Ile Ile Asn Ser Gly Gly Asn Leu
 385 390 395 400
 Gly Gly Phe Val Ser Pro Met Leu Ala Gly Tyr Leu Leu Asp Lys Thr
 405 410 415
 Gly Ser Phe Asn Ser Val Phe Ile Tyr Phe Gly Ile Cys Ala Ala Ile
 420 425 430
 Gly Leu Ile Met Ile Met Leu Leu Glu Glu Pro Lys
 435 440 445

<210> 10153

<211> 254

<212> PRT

<213> *Enterobacter cloacae*

<400> 10153

Trp Ser Lys Cys Met Leu Leu Lys Asn Lys Val Ala Val Ile Thr Gly
 1 5 10 15
 Ala Ala Ser Val Arg Gly Leu Gly Phe Ala Thr Ala Lys Leu Tyr Ala
 20 25 30
 Glu Gln Gly Ala Lys Val Val Ile Ile Asp Leu Asn Ala Glu Ala Ser
 35 40 45
 Arg Ala Ala Ala Ala Ser Leu Gly Asp Glu His Leu Gly Leu Ala Ala
 50 55 60
 Asn Val Ser Asn Glu Leu Gln Val Asn Ala Ala Ile Glu Gln Val Leu
 65 70 75 80
 Gly Lys Tyr Gly Arg Ile Asp Ile Leu Val Asn Asn Ala Gly Ile Thr
 85 90 95
 Gln Pro Ile Lys Leu Met Asp Ile Lys Arg Glu Asn Tyr Asp Ala Val
 100 105 110
 Leu Asp Val Ser Leu Arg Gly Thr Leu Leu Met Ser Gln Ala Val Ile
 115 120 125
 Pro Thr Met Arg Ala Gln Lys Ser Gly Ser Ile Val Cys Ile Ser Ser
 130 135 140
 Val Ser Ala Gln Arg Gly Gly Gly Ile Phe Gly Gly Pro His Tyr Ser
 145 150 155 160

Ala	Ala	Lys	Ala	Gly	Val	Leu	Gly	Leu	Ala	Lys	Ala	Met	Ala	Arg	Glu
				165					170					175	
Leu	Gly	Pro	Asp	Asn	Val	Arg	Val	Asn	Cys	Ile	Thr	Pro	Gly	Leu	Ile
			180					185					190		
Gln	Thr	Asp	Ile	Thr	Ala	Gly	Lys	Leu	Ser	Asp	Glu	Met	Lys	Thr	Ser
		195					200					205			
Ile	Leu	Ala	Gly	Ile	Pro	Leu	Asn	Arg	Leu	Gly	Asp	Ala	Gln	Asp	Ile
	210					215					220				
Ala	Arg	Ala	Ala	Leu	Phe	Leu	Gly	Ser	Asp	Leu	Ser	Ser	Tyr	Ser	Thr
225					230					235					240
Gly	Ile	Thr	Leu	Asp	Val	Asn	Gly	Gly	Met	Leu	Ile	His			
				245					250						

<210> 10154

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 10154

Gly	Asp	Thr	Thr	Met	Thr	Asp	Thr	Thr	Val	Gln	Gln	Val	Ala	Ala	Ala
1				5					10					15	
Ala	Trp	Arg	Ile	Arg	Arg	Tyr	Ala	Leu	Arg	Met	Gly	Glu	Val	Gln	Gly
			20					25					30		
Gln	Gly	Tyr	Ile	Gly	Gln	Ala	Leu	Gly	Tyr	Ala	Asp	Val	Leu	Ala	Thr
		35					40					45			
Ala	Phe	Thr	His	Gly	Met	Asn	Leu	Lys	Pro	Gly	Glu	Pro	Glu	Trp	Glu
	50					55					60				
Gly	Arg	Asp	Arg	Phe	Leu	Leu	Ser	His	Gly	His	Tyr	Ala	Ile	Ala	Cys
65					70					75					80
Tyr	Ala	Ala	Leu	Ile	Glu	Ala	Gly	Ile	Val	Pro	Glu	Glu	Glu	Leu	Glu
				85					90					95	
Thr	Tyr	Gly	Ala	Asp	Asp	Ser	Arg	Leu	Pro	Met	Ser	Gly	Met	Ala	Thr
			100					105					110		
Tyr	Thr	Pro	Gly	Met	Glu	Ile	Ser	Gly	Gly	Ser	Leu	Gly	Gln	Gly	Leu
		115					120					125			
Ser	Ile	Gly	Val	Gly	Met	Ala	Leu	Gly	Leu	Lys	Arg	Lys	Gln	Ser	Ala
	130					135					140				
Ala	Trp	Val	Val	Asn	Ser	Met	Ser	Asp	Gly	Glu	Leu	Asp	Glu	Gly	Ser
145					150					155					160
Thr	Trp	Glu	Ala	Ala	Met	Ser	Ala	Ala	His	His	Gly	Leu	Ser	Asn	Leu
				165					170					175	
Ile	Val	Leu	Val	Asp	Ile	Asn	Arg	Gln	Gln	Ala	Asp	Gly	Asn	Ser	His
		180						185					190		
Ala	Ile	Leu	Gly	Phe	Glu	Pro	Leu	Glu	Asp	Lys	Trp	Thr	Ser	Phe	Gly
		195					200					205			
Trp	Tyr	Val	Gln	Arg	Val	Asn	Gly	Asn	Asp	Val	Pro	Ser	Leu	Val	Thr
	210					215					220				
Ala	Phe	Asp	Asn	Ala	Lys	Arg	Tyr	Pro	Glu	Asn	Gln	Pro	Arg	Val	Ile
225					230					235					240
Leu	Cys	Asp	Thr	Leu	Met	Gly	Lys	Gly	Val	Pro	Phe	Leu	Glu	Lys	Arg
				245					250					255	
Asp	Lys	Asn	His	Phe	Ile	Arg	Val	Asp	Ala	Asp	Glu	Trp	Gln	Lys	Ala
			260					265					270		
Leu	Ala	Val	Leu	Asp	Ala	Asn	Lys	Pro	Glu	Gly	Val	Leu			
		275					280					285			

<210> 10155

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 10155

Arg Met Ser Ala Asn Lys Leu Ala Ser Ser Ala Gln Gly Leu Gln Ser
 1 5 10 15
 Ser Ala Ile Arg Glu Leu Leu Lys His Ser Lys Met Ala Gly Val Ile
 20 25 30
 Ser Leu Gly Gly Gly Ile Pro Asn Pro Asp Leu Phe Asp His Glu Gly
 35 40 45
 Leu Lys Ile Ala Ala Asp Ala Val Leu Ser Gln His Phe Gly Glu Ala
 50 55 60
 Phe Gln Tyr Gly Leu Thr Glu Gly Val Pro Gly Leu Arg Glu Glu Ile
 65 70 75 80
 Gln Arg Ile Cys Glu Gly Arg Gly Ile Ala Cys Lys Ala Asp Asp Val
 85 90 95
 Val Ile Thr Ser Gly Ser Gln Gln Ser Leu Asp Val Leu Ala Arg Ala
 100 105 110
 Leu Ile Asn Pro Gly Asp Thr Val Val Val Glu Arg Pro Thr Tyr Leu
 115 120 125
 Ala Ala Leu Gln Val Phe Gly Leu Ala Gln Ala Lys Phe Glu Ser Val
 130 135 140
 Gly Thr Asp Gly Asp Gly Met Lys Val Asp Glu Leu Glu Ala Leu Val
 145 150 155 160
 Ala Thr Lys Thr Ile Lys Ala Val Tyr Ile Val Pro Thr Phe Gly Asn
 165 170 175
 Pro Gly Gly Val Thr Leu Ser Glu Ala Arg Arg Lys Gln Leu Val Glu
 180 185 190
 Leu Ser Lys Arg Tyr Asp Phe Val Ile Ile Glu Asp Asp Pro Tyr Ser
 195 200 205
 Glu Ile Asn Tyr Thr Asp Glu Ala Phe Arg Pro Leu Ile Ala His Ala
 210 215 220
 Lys Asp Ile Gly Asn Glu Asp Asn Val Val Tyr Thr Ser Thr Phe Ser
 225 230 235 240
 Lys Ile Leu Ala Pro Gly Thr Arg Val Gly Trp Val Leu Val Pro Glu
 245 250 255
 Trp Leu Lys Arg Ala Val Val Asn Leu Lys Gln Thr Thr Asp Leu His
 260 265 270
 Thr Ser Thr Leu Ser Gln Leu Met Thr Tyr Glu Tyr Leu Lys Thr Gly
 275 280 285
 Arg Leu Ala Asn Gln Ile Lys Met Ile Arg Glu Ala Tyr Arg Gln Lys
 290 295 300
 Tyr Gln Thr Phe Ala Thr Glu Leu Glu Ala Glu Leu Gly Asp Val Met
 305 310 315 320
 Ser Phe His Lys Pro Lys Gly Gly Met Phe Leu Trp Ala Lys Met Asn
 325 330 335
 Asn Gly Ile Asn Thr Thr Lys Trp Leu Glu Lys Thr Leu Ser Asn Gly
 340 345 350
 Val Val Phe Val Pro Gly Glu Phe Phe Tyr Cys Asn Glu Pro Asp His
 355 360 365
 Thr Thr Leu Arg Met Ser Phe Val Thr Pro Thr Asp Glu Gln Leu Lys
 370 375 380
 Glu Ala Val Arg Arg Leu Arg Ile Ser Leu
 385 390 395

<210> 10156

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 10156

Ile Ser Glu Leu Thr Val Ala Asn Asp Val Thr Phe Pro Ala Thr Leu
 1 5 10 15
 Thr Ser Val Ser Pro Leu Ala Ala Trp Leu Glu Arg Gln Met Ala Ser

145

$\langle 211 \rangle$ 400

<213> Enterobacter cloacae

Phe 1	Pro	Leu	Thr	Tyr 5	Gly	Cys	Gly	Phe	Leu 10	Leu	Ser	Glu	Asn	Arg 15	Ala
Gly	Val	Tyr	Met 20	Ser	Ser	Thr	Glu	Ala 25	Thr	Asn	Lys	Ala	Pro 30	Ala	Val
Pro	Glu	Lys 35	Ser	Ser	Val	Lys	Ser 40	Leu	Lys	Glu	Glu	Pro 45	Val	Leu	Gln
Val	Glu 50	Arg	Arg	Asp	Phe	Val 55	Asp	Leu	Val	Pro	Glu 60	Lys	Arg	Pro	Arg
Val 65	Gln	Ser	Leu	Arg	Gly 70	Phe	Asp	Asp	Cys 75	Tyr	Thr	Asp	Ile	Val	Asp 80
Tyr	Ile	Val	Arg	Cys 85	Thr	His	Lys	Ile	Trp 90	Asp	Glu	Arg	Asp	Val 95	Gly
Leu	Ile	Tyr	Ser 100	His	Tyr	Thr	His	Asn 105	Cys	Val	Leu	Tyr	Asn 110	Ala	Leu
Gly	Thr	Leu 115	Tyr	Asn	Arg	Glu	Gln 120	Val	Val	Gln	Asp	Thr 125	Leu	Gln	Arg
Leu	Ile 130	Ala	Phe	Pro	Glu	Arg 135	Arg	Gly	Met	Ala	Thr 140	Gln	Val	Ile	Trp
Asn 145	Gly	Asn	Asp	Val	Asp 150	Gly	Phe	Tyr	Thr	Ser 155	His	Leu	Val	Thr	Gly 160
Ser	Gly	Arg	His	Thr 165	Gln	His	Ser	His	Leu 170	Gly	Lys	Pro	Thr	Asn 175	Arg
Thr	Phe	Val	Thr 180	Arg	Thr	Val	Ala	Asp 185	Cys	Met	Ile	His	Glu 190	Asn	Lys
Ile	Tyr	Arg 195	Glu	Trp	Val	Val	Ser 200	Asp	Asn	Met	Ser	Leu 205	Met	Lys	Gln
Leu	Gly 210	Leu	Asn	Thr	Asp	Gln 215	Ile	Ala	Phe	Asn	Met 220	Ala	Lys	Glu	Gln
Phe 225	Asp	Lys	Gly	Phe 230	Arg	Val	Met	Asp	Ile 235	Gly	Glu	Asn	Gly	Arg	Met 240
Leu	Gly	Gln	Tyr	Pro 245	Pro	Glu	Met	Glu	Cys 250	Asp	Val	Ser	Ile	Ala	His 255
Thr	Asp	Thr 260	Glu	Glu	Gln	Cys	Leu	Arg 265	Trp	Leu	His	Glu	Ile 270	Tyr	Asn
Arg	Arg	Met 275	Phe	Gly	Lys	Ile	Lys 280	Glu	Val	Tyr	Ala	Pro 285	Asn	Val	Gln
Trp	His	Gly	Pro	Leu	Met	Lys	Glu	Leu	Tyr	Gly	Thr	Ala	Ala	Val	Thr

290		295		300
His Gln Thr Leu Ala	Leu Val Gly Met Ile Pro Asp Gly Ala Trp Leu			
305	310	315		320
Pro Gln His Ile Cys	Ser Asn Pro Cys Asp Glu Gly Gly Val Lys Val			
	325	330		335
Ala Val Arg Trp Ile Ile	Glu Gly His His Leu Gly Tyr Gly Glu Leu			
	340	345		350
Gly Lys Pro Thr Gly Glu Arg	Leu Phe Val Met Gly Met Ser His Tyr			
	355	360		365
His Ile Val Asn Gly Lys Ile	Val Asp Glu Trp Val Val Tyr Asp His			
	370	375		380
Leu Ala Leu Leu Ala Gln Ile	Lys Leu Gly Gln Met Glu Asp Ala			
385	390	395		400

<210> 10158

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 10158

Met Leu Asn Gln Val Ser Trp Ile Lys Arg Pro Gln Gly Gln Asp Ala	
1 5 10 15	
Gln Ala Asp Arg Ser Leu Thr Glu Lys Val Ser Ala Ile Ile Glu Arg	
20 25 30	
Val Lys Thr Glu Gly Asp Thr Ala Leu Arg Ala Phe Ser Gln Gln Phe	
35 40 45	
Asp Lys Val Val Pro Ala Gln Phe Glu Val Ser Glu Gln Glu Ile Ala	
50 55 60	
Glu Ala Leu Glu Gly Met Asp Ala Gln Thr Arg Arg Asp Ser Glu Phe	
65 70 75 80	
Ala Ile Asn Gln Val Cys Arg Phe Ala Gln Ala Gln Leu Ala Thr Met	
85 90 95	
Gln Pro Leu Glu Val Glu Thr Leu Pro Gly Val His Leu Gly His Arg	
100 105 110	
Ile Ile Pro Val Gln Thr Val Gly Cys Tyr Val Pro Gly Gly Arg Tyr	
115 120 125	
Pro Ile Leu Ser Ala Pro Val Met Ser Ile Val Pro Ala Thr Val Ala	
130 135 140	
Gly Cys Glu Gln Ile Ile Ala Cys Leu Pro Pro Gly Ala His Pro Ala	
145 150 155 160	
Met Ile Ala Val Cys His Leu Ala Gly Ala His Arg Ile Phe Lys Val	
165 170 175	
Gly Gly Ala Gln Ala Ile Ala Ala Met Ala Trp Gly Thr Glu Ser Ile	
180 185 190	
Pro Ser Val Asp Lys Ile Val Gly Pro Gly Asn Ala Phe Val Asn Glu	
195 200 205	
Ala Lys Arg Gln Val Phe Gly Arg Val Gly Ile Asp Ala Leu Ala Gly	
210 215 220	
Pro Ser Glu Ile Phe Thr Ile Ala Asp Asp Ser Ala Asp Pro Arg Ile	
225 230 235 240	
Leu Ala Ala Asp Met Leu Ala Gln Ala Glu His Asp Ile His Thr Arg	
245 250 255	
Val Gly Leu Ala Thr Thr Ser Arg Asp Ile Ala Glu Arg Thr Leu Ala	
260 265 270	
Glu Val Glu Arg Gln Leu Ala Ser Leu Pro Thr Ala Ala Thr Ala Gly	
275 280 285	
Glu Ala Trp Arg Arg Gln Gly Glu Ile Val Leu Cys Glu Asp Glu Ala	
290 295 300	
Gln Leu Ile Ala Phe Ala Asp His Met Ala Thr Glu His Leu Gln Val	
305 310 315 320	
His Thr Arg Asp Pro His Ala Thr Ala Ala Lys Ile Arg Asn Tyr Gly	

				325					330				335				
Ser	Leu	Phe	Ile	Gly	Gln	Asn	Ala	Ser	Val	Val	Phe	Ser	Asp	Lys	Cys		
			340					345					350				
Cys	Gly	Thr	Asn	His	Thr	Leu	Pro	Thr	Met	Ala	Ala	Ala	Arg	Tyr	Thr		
		355					360					365					
Gly	Gly	Leu	Trp	Val	Gly	Ala	Tyr	Val	Lys	Ile	Cys	Thr	His	Gln	Trp		
	370					375					380						
Ile	Asp	Glu	Gln	Gly	Ile	Pro	Ala	Ile	Ala	Glu	Pro	Ala	Ile	Arg	Gln		
385					390					395					400		
Ser	Arg	Thr	Glu	Gly	Met	Gln	Gly	His	Arg	Arg	Ala	Ala	Glu	Ile	Arg		
			405						410					415			
Leu	Arg	Pro	Gln	Asp	Ile	Asp	Ala	Ile	Thr	Thr	Gly	Met	Arg	Asp			
			420					425					430				

<210> 10159

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 10159

Asn	Val	Ser	Arg	Ala	Ala	Phe	Cys	Pro	Val	Phe	Ile	Thr	Arg	Glu	Pro		
1				5					10					15			
Glu	Thr	Met	Lys	Arg	Leu	Ile	Pro	Pro	Asp	Asp	Cys	Pro	Glu	Glu	Ile		
			20					25					30				
Ala	His	Arg	Leu	Asp	Val	Ile	Gln	Gln	His	Arg	Ala	Leu	Asn	Ala	Ile		
		35					40					45					
Leu	Gly	Val	Asn	Pro	Asp	Ala	Met	Ser	Gln	Ala	Glu	Gln	His	Gln	Gln		
	50					55					60						
Gln	Arg	Arg	Arg	Gly	Glu	Pro	Ile	Gly	Pro	Leu	His	Gly	Val	Pro	Leu		
65					70					75					80		
Ile	Val	Lys	Asp	Asn	Ile	Ala	Cys	Ala	Pro	Met	Pro	Ile	Thr	Leu	Gly		
			85					90						95			
Cys	Arg	Ala	Leu	Ala	Ser	Leu	Asn	Ala	Thr	Ala	Asp	Ala	Arg	Val	Val		
			100					105					110				
Gln	Arg	Leu	Arg	Ser	Ala	Gly	Ala	Ile	Ile	Leu	Ala	Arg	Ala	Asn	Met		
		115				120						125					
Ser	Glu	Phe	Ala	Phe	Asp	Val	Arg	Ser	Arg	Ser	Ser	Leu	Gly	Gly	Asp		
	130					135					140						
Val	Ala	Asn	Pro	Leu	Cys	Pro	Thr	Leu	Thr	Ala	Gly	Gly	Ser	Ser	Gly		
145					150					155					160		
Gly	Cys	Ala	Ala	Ala	Val	Ala	Ala	Gly	Met	Ala	Asp	Gly	Ala	Leu	Gly		
			165					170						175			
Thr	Asp	Thr	Gly	Gly	Ser	Ile	Arg	Ile	Pro	Cys	Ser	Tyr	Thr	Gly	Leu		
		180						185					190				
Met	Gly	Leu	Arg	Pro	Ala	Phe	Arg	Arg	Ser	Gln	Leu	Asp	Gly	Val	Ala		
	195					200						205					
Pro	Leu	Ser	Pro	Ser	Lys	Asp	Thr	Val	Gly	Pro	Met	Val	His	Ser	Val		
	210					215					220						
Glu	Asp	Ala	Ala	Leu	Leu	His	Ala	Val	Ile	His	Gly	Leu	Pro	Pro	Val		
225					230					235					240		
Ala	Leu	Pro	Val	Arg	Ser	Leu	Lys	Gly	Val	Arg	Phe	Gly	Val	Val	Thr		
			245					250						255			
Ala	Leu	Gln	Gly	Glu	Asp	Glu	Val	Gln	Leu	Glu	Val	Trp	Gln	Ser	Ala		
		260						265					270				
Leu	His	Thr	Leu	Arg	Arg	Ala	Gly	Ala	Thr	Leu	Val	Glu	Val	Ser	Leu		
	275					280						285					
Pro	Phe	Leu	Glu	Glu	Val	Arg	Gln	Ala	Thr	Cys	Leu	Ser	Leu	Tyr	Glu		
	290					295					300						
Phe	Arg	Val	Ala	Ile	Asp	Asp	Trp	Leu	Ser	Lys	Gln	Pro	Gly	Ala	Pro		
305					310					315					320		
Ser	Gly	Leu	Thr	Ser	Ile	Val	Asp	Ser	Gly	Ala	Phe	Leu	Pro	Glu	Phe		

				325					330				335				
Ala	Pro	Phe	Leu	Arg	Gln	Met	Leu	Ala	Ser	Asn	Thr	Leu	Lys	Thr	Pro		
			340					345					350				
Leu	Trp	Leu	Ala	Gly	Arg	Arg	Phe	Gln	Arg	Leu	Leu	Arg	Gln	Asn	Leu		
		355					360					365					
Cys	Gln	Val	Ala	Glu	Ala	Gln	Arg	Ile	Asp	Gly	Phe	Val	Tyr	Pro	Thr		
		370				375					380						
Val	Gln	Arg	Leu	Pro	Glu	Ser	Met	Ala	Lys	Met	Pro	Pro	Gly	Cys	Ala		
385					390					395					400		
Pro	Glu	Leu	Ala	Ala	Ile	Ser	Gly	Leu	Pro	Ala	Ile	Thr	Leu	Pro	Cys		
			405						410					415			
Gly	Val	Ser	Arg	Ile	Gly	Leu	Pro	Val	Gly	Met	Glu	Met	Leu	Pro	Cys		
			420					425					430				
Gln	Glu	Asp	Glu	Ala	Ala	Leu	Met	Val	Leu	Ala	Leu	Ala	Cys	Glu	Gly		
		435					440					445					
Ala	Leu	Gly	Glu	Lys	Gly												
	450					455											

<210> 10160

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10160

Met	Leu	Leu	Phe	Val	Cys	Cys	Val	Thr	Met	Glu	Asn	Ala	Met	Pro	Gln		
1				5				10					15				
Ile	Ser	Arg	Thr	Ala	Leu	Val	Pro	Tyr	Ser	Ala	Glu	Gln	Met	Tyr	Gln		
			20					25					30				
Leu	Val	Asn	Asp	Val	Gln	Ser	Tyr	Pro	Glu	Phe	Ile	Pro	Gly	Cys	Thr		
		35					40					45					
Gly	Ser	Arg	Val	Leu	Glu	Ser	Gly	Pro	Thr	Gln	Met	Thr	Ala	Ala	Val		
	50					55					60						
Asp	Val	Ser	Lys	Ala	Gly	Ile	Ser	Lys	Thr	Phe	Thr	Thr	Arg	Asn	Thr		
65					70					75					80		
Leu	Thr	Ser	Asn	Gln	Ser	Ile	Leu	Met	His	Leu	Val	Asp	Gly	Pro	Phe		
			85					90						95			
Lys	Lys	Leu	Met	Gly	Gly	Trp	Lys	Phe	Thr	Pro	Leu	Ser	Ala	Asp	Ala		
		100						105					110				
Cys	Arg	Ile	Glu	Phe	His	Leu	Asp	Phe	Glu	Phe	Thr	Asn	Lys	Leu	Ile		
		115					120					125					
Glu	Leu	Ala	Phe	Gly	Arg	Ile	Phe	Lys	Glu	Leu	Ala	Ser	Asn	Met	Val		
		130				135					140						
Gln	Ala	Phe	Thr	Thr	Arg	Ala	Lys	Glu	Val	Tyr	Ser	Val	Ala				
145					150					155							

<210> 10161

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10161

Asp	Pro	Ser	Gly	Arg	Leu	Ala	Lys	Gly	Ile	Ile	Pro	Trp	Asp	Val	Leu		
1				5				10					15				
Gly	Arg	Ser	Gly	Trp	Glu	Lys	Phe	Arg	Gly	Cys	Ser	Val	Lys	Lys	Asn		
		20						25					30				
Ala	Ala	Ser	Gln	Ala	Glu	Leu	Glu	Arg	Gln	Arg	Ala	Glu	Gln	Gln	Asp		
		35					40					45					
Lys	Ile	Asn	Ala	Leu	Leu	Glu	Leu	Met	Lys	Ala	Asp	Gly	Ile	Ser	Pro		
	50					55					60						
Ser	Asp	Leu	Leu	Gly	Ser	Asp	Leu	Ala	Gln	Ala	Gly	Gln	Pro	Thr	Lys		
65					70				75						80		

Lys Arg Lys Ala Arg Ala Ala Lys Tyr Arg Phe Ile Asp Ala Asn Gly
 85 90 95
 Glu Glu Lys Thr Trp Thr Gly Gln Gly Arg Thr Pro Lys Pro Ile Ala
 100 105 110
 Thr Ala Leu Ala Asn Gly Lys Ser Leu Asp Asp Phe Leu Ile
 115 120 125

<210> 10162

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 10162

Lys Gly Ala Val Asp Leu Pro Arg Ser Leu Leu Phe Ile Arg His Ala
 1 5 10 15
 Ser Met Lys Asn Met Lys Leu Glu Trp Lys Arg Gly Asp Trp Ala Ala
 20 25 30
 Tyr Phe Gly Leu Met Thr Asn Asn Leu Thr Asn Leu Leu Thr Met Met
 35 40 45
 Gly Leu Leu Ile Phe Val Val Gly Ile Pro Lys Glu Ile Val Tyr Gly
 50 55 60
 Arg Ile Ala Pro Ala Phe Gly Leu Ala Val Leu Val Ala Ser Leu Cys
 65 70 75 80
 Tyr Thr Trp Phe Gly Leu Gln Met Ala Arg Ala Thr Gly Arg Thr Asp
 85 90 95
 Val Thr Ala Leu Pro Ser Gly Pro Ser Ala Pro Ser Ile Phe Thr Val
 100 105 110
 Thr Phe Leu Val Leu Met Pro Val Tyr Gln Gln Thr Gly Asp Ala Asp
 115 120 125
 Phe Ala Ile Gln Ile Gly Leu Val Trp Cys Phe Val Glu Ala Met Ile
 130 135 140
 Leu Ala Gly Gly Ser Phe Leu Gly Glu Thr Ile Arg Lys Met Ile Pro
 145 150 155 160
 Arg Thr Val Leu Leu Ser Cys Leu Ser Gly Leu Gly Leu Leu Leu Leu
 165 170 175
 Ala Met Asn Pro Met Leu Gln Ala Phe Glu Ala Pro Thr Val Ser Phe
 180 185 190
 Ile Val Leu Leu Ile Phe Ile Asn Trp Phe Gly Lys Lys Pro Ile
 195 200 205
 Phe Ala Arg Ile Pro Thr Gly Leu Leu Leu Leu Ile Ala Gly Thr Leu
 210 215 220
 Leu Ala Trp Ile Ser Gly Leu Gln Ser Pro Asp Ala Ile Lys Ala Ser
 225 230 235 240
 Met Ser Ser Phe Gly Phe Asn Pro Pro Glu Val His Val Asp Ser Phe
 245 250 255
 Met Gln Gly Leu Pro His Ala Leu Pro Tyr Leu Ala Ser Ala Val Pro
 260 265 270
 Leu Gly Leu Ala Asn Tyr Ile Phe Asp Leu Glu Asn Ile Glu Ser Ala
 275 280 285
 His Ala Ala Gly Asp Glu Tyr Pro Thr Arg Lys Val Met Leu Ala Asn
 290 295 300
 Gly Leu Ala Ser Met Leu Gly Cys Leu Met Gly Asn Pro Phe Pro Val
 305 310 315 320
 Thr Val Tyr Val Gly His Pro Gly Trp Lys Ala Met Gly Ala Ser Ile
 325 330 335
 Gly Tyr Thr Leu Ala Ser Gly Val Thr Met Phe Ile Val Pro Leu Phe
 340 345 350
 Gly Leu Gly Ala Phe Met Leu Ala Ile Ile Pro Met Thr Ala Ile Val
 355 360 365
 Pro Ile Leu Val Phe Ile Gly Val Val Thr Ala Asn Gln Val Val Arg
 370 375 380

Glu Thr Pro Lys Val Glu Val Pro Val Ile Phe Ile Cys Leu Phe Pro
 385 390 395 400
 Trp Ile Ala Asn Trp Ala Leu Thr Met Met Asn Ser Val Met Ser Ala
 405 410 415
 Ala Gly Thr Ser Ala Ala Lys Ile Gly Thr Asp Val Leu His Ser Lys
 420 425 430
 Gly Ile Tyr Tyr Glu Gly Leu Met His Leu Gly Asn Gly Ala Pro Leu
 435 440 445
 Ala Ser Met Leu Trp Gly Cys Ile Ala Ile Phe Ala Ile Leu Asn Lys
 450 455 460
 Pro Leu Arg Gly Ala Val Ala Ala Ala Gly Gly Ala Leu Leu Ala Leu
 465 470 475 480
 Phe Gly Val Ile His Ala Pro Val Val Gly Phe Ala Glu Gly Ser Ser
 485 490 495
 Leu Met Phe Val Thr Ala Tyr Leu Met Met Gly Gly Met Phe Val Val
 500 505 510
 Lys His Val Leu Asp Thr Ser Val Asn Pro Pro Leu Pro Val Gly Glu
 515 520 525
 Gly Arg Gly Glu Gly Thr Arg Thr His Leu Leu Lys Glu Thr Lys
 530 535 540

<210> 10163

<211> 486

<212> PRT

<213> Enterobacter cloacae

<400> 10163

Ser Ser Pro Arg Arg Thr Ala Cys Pro Gln Arg Cys Ala Val Lys Arg
 1 5 10 15
 Val Pro Ile Leu Leu Met Lys Glu Asp Lys Met Ser Glu Asn Lys Ser
 20 25 30
 Arg Arg Glu Phe Ile Ser Gln Ser Gly Lys Met Val Thr Ala Cys Ala
 35 40 45
 Leu Phe Gly Ala Thr Gly Ser Val Ala Tyr Ala Ala Asp Ser Val Lys
 50 55 60
 Ala Thr Cys Glu Thr Gly Lys Pro Met Asn Ile Thr Ala Lys His Tyr
 65 70 75 80
 Tyr Leu Asp Asn Val Leu Leu Glu Ala Gly Phe Asn Tyr Asp Gly Ser
 85 90 95
 Val Ala Thr Ser Thr Arg Thr Glu Leu Lys Thr Leu Glu Ile Lys Asp
 100 105 110
 Gly Lys Ile Val Ala Leu Arg Asp Asn Gly Ser His Ala Asp Ala Thr
 115 120 125
 Leu Pro His Tyr Asp Ala Gly Lys Lys Leu Met Leu Pro Ala Met Arg
 130 135 140
 Asp Met His Ile His Leu Asp Lys Thr Phe Tyr Gly Gly Pro Trp Arg
 145 150 155 160
 Ser Leu Asn Arg Pro Ala Gly Thr Thr Ile Gln Asp Met Ile Arg Leu
 165 170 175
 Glu Gln Lys Leu Leu Pro Glu Leu Gln Pro Tyr Thr Gln Glu Arg Ala
 180 185 190
 Glu Lys Leu Ile Asp Leu Ile Gln Ser Lys Gly Ser Thr Ile Ala Arg
 195 200 205
 Ser His Cys Asn Ile Glu Pro Val Ser Gly Leu Lys Asn Leu Glu Asn
 210 215 220
 Leu Gln Ala Val Leu Ala Arg Arg Gly Ala Gly Phe Asp Cys Glu Ile
 225 230 235 240
 Val Ala Phe Pro Gln His Gly Leu Leu Leu Ser Asn Ser Glu Lys Leu
 245 250 255
 Met Arg Glu Ala Met Gln Ala Gly Ala His Tyr Val Gly Gly Leu Asp
 260 265 270

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Pro Thr Ser Val Asp Gly Ala Met Glu Lys Ser Leu Asp Thr Met Phe
      275      280      285
Gln Ile Ala Leu Asp Tyr Asp Lys Gly Val Asp Ile His Leu His Glu
      290      295      300
Thr Ser Pro Ala Gly Val Ala Ala Val Asn Tyr Met Val Glu Thr Val
305      310      315      320
Glu Lys Thr Pro Ala Leu Lys Gly Lys Leu Thr Ile Ser His Ala Phe
      325      330      335
Ala Leu Ala Thr Leu Asn Glu Gln Gln Val Asp Glu Ile Ala Thr Arg
      340      345      350
Met Ala Ala Gln Gln Val Thr Ile Ala Ser Thr Val Pro Ile Gly Thr
      355      360      365
Leu His Met Pro Leu Lys Gln Leu Arg Asp Lys Gly Val Phe Val Met
      370      375      380
Thr Gly Thr Asp Ser Val Ile Asp His Trp Ser Pro Tyr Gly Leu Gly
385      390      395      400
Asp Met Leu Glu Lys Ala Asn Leu Tyr Ala Gln Leu Tyr Ile Arg Pro
      405      410      415
Asn Glu Gln Thr Leu Ser Arg Ala Leu Gly Ile Ala Thr Gly Asp Val
      420      425      430
Leu Pro Leu Asn Asp Lys Gly Glu Arg Val Trp Pro Lys Ala Gln Asp
      435      440      445
Asp Ala Ser Phe Val Leu Val Asp Ala Ser Cys Ser Ala Glu Ala Val
      450      455      460
Ala Arg Ile Ser Pro Arg Thr Ala Thr Phe His Lys Gly Asn Leu Val
465      470      475      480
Trp Gly Thr Val Ala
      485

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<210> 10164

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 10164

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Pro Leu Arg Asp Leu Asn His Ser His Gly Gly Glu Asn Pro Ala Gln
1      5      10      15
Ala Val Ile Tyr Lys Thr Asp Thr Leu Ser Thr Gly Glu Gly Cys Phe
      20      25      30
Thr Leu Ala Thr Val Ala Ile Lys Glu Ser Val Met Ala Gln Asn Ile
      35      40      45
Tyr Asp Asn Pro Ala Phe Phe Glu Gly Tyr Ala Gln Leu Pro Arg Ser
      50      55      60
Val Gln Gly Leu Asn Gly Ala Pro Glu Trp Pro Ala Leu Lys Ala Met
65      70      75      80
Leu Pro Asp Leu Thr Gly Lys Ala Val Val Asp Leu Gly Cys Gly Tyr
      85      90      95
Gly Trp Phe Cys Arg Ala Ala Arg Glu Leu Gly Ala Ser Asp Val Thr
      100      105      110
Gly Val Asp Ile Ser Glu Lys Met Leu Ala Arg Ala Ala Glu Leu Thr
      115      120      125
Asp Asp Asn Arg Ile His Tyr Gln Arg Ser Asp Leu Glu Ser Leu Ala
      130      135      140
Leu Lys Ala Asn Ser Leu Asp Leu Val Tyr Ser Ser Leu Ala Leu His
145      150      155      160
Tyr Leu Pro Glu Leu Asp Thr Leu Phe Ala Asn Val Gln Arg Ala Leu
      165      170      175
Lys Pro Gly Gly Ser Leu Val Phe Ser Met Glu His Pro Ile Tyr Thr
      180      185      190
Cys Ala Thr Arg Gln Gly Trp Leu Thr Asp Asp Ser Gly Glu Arg Phe
      195      200      205

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Trp	Gly	Val	Asn	His	Tyr	Gln	Asp	Glu	Ser	Gln	Arg	Val	Ser	Asn	Trp
	210					215					220				
Leu	Ala	Asp	Gly	Val	Ile	Lys	Tyr	His	Arg	Thr	Leu	Gly	Thr	Thr	Leu
225					230					235					240
Asn	Ala	Leu	Ile	Lys	Ala	Gly	Leu	Thr	Ile	Ser	Glu	Val	Asn	Glu	Trp
				245					250					255	
Gly	Pro	Thr	Gln	Met	Gln	Val	Asp	Ala	Trp	Pro	Ala	Leu	Ala	Glu	Glu
			260					265					270		
Ala	Glu	Arg	Pro	Met	Leu	Val	Leu	Ile	Ala	Ala	Arg	Lys	Ala		
	275						280					285			

<210> 10165

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10165

Pro	Glu	Val	Arg	Asn	Met	Asp	Lys	Leu	Arg	Gly	Met	Glu	Thr	Phe	Ile
1				5					10					15	
Ala	Val	Val	Glu	Ser	Gly	Ser	Phe	Thr	Gly	Ala	Ala	Ala	Arg	Leu	Glu
			20					25					30		
Met	Ser	Ala	Val	Met	Val	Gly	Lys	Tyr	Ile	Thr	Gln	Leu	Glu	Ser	Gln
		35					40					45			
Leu	Gly	Thr	Arg	Leu	Leu	Glu	Arg	Asn	Thr	Arg	Arg	Gln	Ser	Leu	Thr
	50					55					60				
Asp	Ala	Gly	Arg	Val	Tyr	Phe	Val	Glu	Ala	Arg	Arg	Val	Leu	Glu	Gln
65					70				75						80
Val	Ser	Ile	Ala	Glu	Asn	Ala	Val	Glu	Arg	Leu	Arg	Ala	Thr	Pro	Ala
				85					90					95	
Gly	Thr	Leu	Arg	Val	Thr	Ala	Pro	Thr	Ser	Phe	Gly	Gly	Cys	Val	Ile
			100					105					110		
Ala	Pro	Leu	Thr	Ala	Thr	Phe	Leu	Gln	Arg	Tyr	Pro	Glu	Val	Arg	Ile
		115					120					125			
Glu	Leu	Asp	Leu	Thr	Asn	Arg	Met	Val	Asp	Leu	Val	Glu	Glu	Gly	Val
	130					135					140				
Asp	Leu	Ala	Ile	Arg	Ile	Gly	Glu	Ile	Arg	Asn	Glu	Asp	Leu	Val	Ala
145					150				155						160
Lys	Tyr	Leu	Cys	Pro	Tyr	Asn	Met	Thr	Ile	Cys	Ala	Ala	Pro	Asp	Tyr
				165					170					175	
Leu	Ala	Arg	His	Gly	Thr	Pro	Gln	Thr	Pro	Ala	Asp	Leu	Val	Asp	His
			180					185					190		
Leu	Cys	Leu	Ser	His	Thr	Val	Trp	Thr	Ala	Arg	Asn	Glu	Trp	Arg	Leu
		195					200					205			
Pro	Gly	Val	Glu	Gly	Glu	Val	Arg	Trp	Lys	Arg	Asp	Ala	Val	Leu	Arg
	210					215					220				
Cys	Asn	Asp	Gly	Tyr	Gly	Leu	Arg	Met	Ala	Ala	Arg	Ala	Gly	Ala	Gly
225					230					235					240
Leu	Leu	Leu	Gln	Pro	Glu	Val	Leu	Val	Ala	Glu	Glu	Leu	Ala	Ser	Gly
				245					250					255	
Arg	Leu	Val	Arg	Val	Leu	Glu	Ala	Phe	Thr	Pro	Ala	Pro	Arg	Pro	Val
			260					265					270		
His	Leu	Leu	Trp	Arg	Gln	Asp	Leu	Arg	Pro	Leu	Pro	Lys	Leu	Thr	Glu
	275						280					285			
Phe	Ile	Ala	His	Ile	Leu	Leu	Arg	Leu	Gly	Thr	Ile				
	290					295					300				

<210> 10166

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10166

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Thr Gln Leu Lys Glu Gln Asn Met Asn Lys Val Ile Leu Ile Thr Gly
1      5      10      15
Ala Ser Ser Gly Ile Gly Glu Gly Ile Ala Arg Glu Leu Gly Lys Ala
20      25      30
Gly Ala Lys Val Phe Leu Gly Ala Arg Arg Leu Glu Arg Ile His Ala
35      40      45
Leu Ala Asp Glu Ile Arg Ser Ala Gly Gly Glu Ala Glu Ala Gln Val
50      55      60
Leu Asp Val Thr Ser Arg Gln Ser Met Ala Ala Phe Val Glu Ala Ala
65      70      75      80
Arg Glu Lys Trp Gly Arg Ile Asp Val Leu Ile Asn Asn Ala Gly Ile
85      90      95
Met Pro Leu Ser Pro Leu Ser Ala Gly Lys Gln Asp Glu Trp Glu Arg
100     105     110
Thr Ile Asp Val Asn Ile Lys Gly Val Leu Trp Gly Ile Gly Ala Val
115     120     125
Leu Pro Ile Met Glu Ala Gln Asn Ser Gly Gln Ile Ile Asn Ile Gly
130     135     140
Ser Ile Gly Ala Leu Ser Val Val Pro Thr Ala Val Tyr Cys Ala
145     150     155     160
Thr Lys Phe Ala Val Arg Ala Ile Ser Asp Gly Leu Arg Gln Glu Ser
165     170     175
Ser Asn Ile Arg Val Thr Cys Val Asn Pro Gly Val Val Glu Ser Glu
180     185     190
Leu Ala Ser Thr Ile Thr His Glu Glu Thr Met Ala Val Met Asp Ala
195     200     205
Tyr Arg Ala Ile Ala Leu Lys Pro Ala Asp Ile Ala Arg Ala Val Arg
210     215     220
His Ile Ile Glu Ala Pro Glu Ser Val Asp Thr Thr Glu Ile Thr Ile
225     230     235     240
Arg Pro Thr Ala Ser Ala Asn
245

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<210> 10167

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 10167

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Ile Pro Gly Arg His Arg Gln Arg His Leu Val Leu Thr Ala Leu Gly
1      5      10      15
Gly Arg Met Leu Ser Gln His Val Leu Ile Val Glu Asp Ser Leu Val
20      25      30
Tyr Arg Arg Leu Leu Ser Arg Met Leu Thr Gln Trp Gly Tyr Thr Val
35      40      45
Tyr Glu Ala Glu Asn Gly Val Ala Ala Leu Glu Ile Leu Glu Asn Gln
50      55      60
Pro Val Ser Leu Val Ile Ser Asp Trp Asp Met Pro Glu Met Asp Gly
65      70      75      80
Leu Thr Leu Cys Arg Glu Val Arg Ser Arg Gln Phe Gly His Tyr Val
85      90      95
Tyr Leu Ile Leu Leu Thr Ala Arg Glu Glu Pro Gly Asp Leu Thr Val
100     105     110
Gly Phe Asp Ala Gly Ala Asp Asp Phe Leu Asn Lys Pro Val Glu Gln
115     120     125
Ser Glu Leu Arg Ala Arg Leu His Ala Gly Ala Arg Val Leu Ser Leu
130     135     140
Glu Ala Thr Leu Ala Thr Arg Asn Ala Arg Leu Ser Glu Ala Leu Arg
145     150     155     160
Gln Ile Glu Gln Asp Leu Glu Val Ala Ala Arg Ile Gln Gln Ser Val

```

[illegible][illegible][illegible]

Thr	Leu	Ser	Leu	165	Glu	Leu	Ser	Glu	Glu	170	Cys	Leu	Ala	Ala	Gly	175	Ile	Pro
Val	Val	Leu	180	Phe	Asn	Arg	Ser	Glu	185	Glu	Ser	Gly	Met	Ala	190	Ser	Ser	Val
Asn	Ser	Asn	195	Asn	Glu	Ala	Ala	Ala	200	Arg	Gln	Ile	Ala	Glu	205	Phe	Leu	Leu
Ala	Gly	Glu	210	His	Lys	Arg	Phe	Ala	215	Tyr	Val	Gly	Gly	Val	220	Ala	Asp	Ser
225	Pro	Val	Asn	Ile	Ala	Arg	Gln	Arg	230	Gly	Phe	Ile	Ser	Thr	235	Leu	Glu	Glu
His	Gly	Ile	245	Thr	Asp	Val	Arg	Val	250	Val	His	Gly	Asn	Tyr	255	Asp	Ala	Gln
Gln	Thr	Thr	260	Arg	Ala	Ala	Tyr	Thr	265	Leu	Phe	Ser	Thr	Ser	270	Pro	Ala	Pro
Asp	Ala	Val	275	Phe	Val	Ala	Asn	Asp	280	His	Met	Ala	Val	Thr	285	Val	Met	Asp
Val	Ala	Arg	290	Tyr	Glu	Phe	Gly	Leu	295	Arg	Ile	Pro	Glu	Glu	300	Val	Ser	Val
305	Val	Gly	Tyr	Asp	Asp	Ile	Gly	Pro	310	Ser	Gly	Trp	Pro	Ser	315	Tyr	Ala	Leu
Thr	Ser	Ala	325	Ser	Gln	Pro	Val	Gly	330	Ala	Met	Val	Asp	Ala	335	Thr	Val	Glu
Leu	Leu	Met	340	Lys	Gln	Ile	Asp	Ser	345	Gly	Thr	Ile	Glu	Pro	350	Glu	Gln	Ile
Thr	Val	Pro	355	Gly	Thr	Leu	Val	Ile	360	Arg	His	Ser	Ala	Arg	365	Arg	Pro	Arg
Ser	Gly	Val	370	Ile	Glu	Thr	Asn	Gly	375	Leu	Thr	Leu	Phe	Gln	380	Ser	Lys	Glu
385	Arg	Thr			390								395					400

<210> 10169

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10169

Thr	Val	Arg	Cys	Ser	Gly	Arg	Asp	Pro	Pro	Ser	Ser	Glu	Arg	Val	Glu
1				5					10					15	
Ala	Gly	Tyr	Gly	Arg	Thr	Gly	His	Ile	Lys	Lys	Ser	Arg	Gly	Val	Leu
			20					25					30		
Arg	Lys	Ala	Val	Arg	Leu	Arg	Tyr	Ala	Phe	Ile	Arg	Asp	Asn	Ser	Arg
		35				40						45			
Cys	Trp	Pro	Val	Arg	Leu	Leu	Cys	Arg	Val	Leu	Asp	Val	His	Pro	Ser
	50				55					60					
Gly	Phe	Tyr	Phe	Trp	Leu	Gln	Gln	Pro	His	Ser	Gln	Arg	His	Gln	Thr
65				70					75					80	
Asp	Gln	Met	Leu	Thr	Gly	Gln	Ile	Lys	Gln	Phe	Trp	Leu	Glu	Ser	Gly
			85					90					95		
Cys	Val	Tyr	Gly	Tyr	Arg	Lys	Ile	His	Leu	Asp	Leu	Arg	Asp	Thr	Gly
			100					105					110		
Gln	Gln	Cys	Gly	Val	Asn	Arg	Val	Trp	Arg	Leu	Met	Lys	Arg	Ala	Gly
		115					120					125			
Ile	Lys	Ala	Gln	Val	Gly	Tyr	Arg	Ser	Pro	Arg	Ala	Arg	Lys	Gly	Glu
	130				135				140						
Ala	Ser	Ile	Val	Thr	Pro	Asn	Arg	Leu	Gln	Arg	Gln	Phe	Asn	Pro	Asp
145				150					155						160
Ser	Pro	Asp	Glu	Arg	Trp	Val	Thr	Asp	Ile	Thr	Tyr	Ile	Arg	Thr	His
			165					170							
Glu	Gly	Trp	Leu	Tyr	Leu	Ala	Val	Val	Val	Asp	Leu	Phe	Ser	Arg	Lys

Met	Val	Pro	Ala	Gly	Leu	Met	Val	Leu	Ala	Ala	Ala	Thr	Trp	Pro	Ala
			100					105					110		
Leu	Arg	Lys	Arg	Glu	Gly	Lys	Pro	Ser	Cys	Ala	Lys	Gly	Ala	Leu	Gly
		115					120					125			
Val	Cys	Ala	Val	Leu	Ile	Ile	Ala	Met	Gly	Val	Thr	Phe	Val	Gln	Met
	130				135						140				
Phe	Gln	Pro	His	Pro	Thr	Val	Pro	Phe	Ser	Gly	Glu	Lys	Arg	Pro	Leu
145					150					155					160
Val	Pro	Val	Lys	Asp	Asp	Ala	Lys	Gln	Gln	Asn	Trp	Asp	His	Tyr	Gly
			165					170						175	
Asn	Thr	Ala	Gly	Ser	Arg	Phe	Val	Ala	Leu	Asp	Gln	Ile	Thr	Arg	
		180					185					190			
Asp	Asn	Val	Lys	Asn	Leu	Lys	Pro	Val	Trp	Thr	Tyr	His	Thr	Gly	Asp
		195					200					205			
Val	Pro	Glu	Ser	Pro	Asp	Gly	Asn	Gly	Ala	Glu	Asp	Gln	Gln	Thr	Pro
	210					215					220				
Leu	Gln	Val	Gly	Asp	Arg	Val	Phe	Leu	Cys	Thr	Pro	His	Asn	Asn	Val
225					230					235					240
Ile	Ala	Val	Asp	Ala	Asp	Ser	Gly	Lys	Glu	Ile	Trp	Lys	Ala	Glu	Ile
			245						250					255	
Asn	Ala	Lys	Ser	Ala	Ile	Trp	Met	Arg	Cys	Arg	Gly	Leu	Ala	Tyr	Phe
		260					265					270			
Asp	Ala	Thr	Lys	Pro	Leu	Ala	Gln	Pro	Thr	Val	Ala	Gly	Ser	Thr	Pro
		275					280					285			
Val	Leu	Pro	Ala	Gln	Val	Ala	Pro	Gly	Ala	Ala	Cys	Gln	Arg	Arg	Ile
	290					295					300				
Leu	Met	Asn	Thr	Ile	Asp	Gly	Lys	Leu	Ile	Ala	Leu	Asp	Ala	Asp	Asn
305					310					315					320
Gly	Lys	Phe	Cys	Pro	Asp	Phe	Gly	Thr	Asn	Gly	Ser	Val	Asn	Leu	His
			325						330					335	
Glu	Gly	Met	Gly	Asp	Ala	Ser	Asp	Pro	Thr	Tyr	Val	Leu	Thr	Ser	Ala
			340					345					350		
Pro	Thr	Leu	Ala	Gly	Thr	Thr	Val	Val	Val	Gly	Gly	Arg	Val	Ala	Asp
		355					360					365			
Asn	Val	Ser	Thr	Asp	Met	Pro	Gly	Gly	Val	Ile	Arg	Gly	Tyr	Asp	Val
	370					375					380				
Ile	Thr	Gly	Gln	Leu	Arg	Trp	Ala	Phe	Asp	Pro	Arg	Asn	Pro	Asp	Pro
385					390					395					400
Asn	Tyr	Val	Leu	Lys	Pro	Gly	Glu	His	Tyr	Lys	Arg	Ser	Ser	Ala	Asn
			405						410					415	
Ser	Trp	Ala	Pro	Met	Ser	Trp	Asp	Ala	Ser	Met	Asn	Thr	Val	Phe	Ile
		420						425					430		
Pro	Met	Gly	Ser	Ser	Ser	Val	Asp	Leu	Trp	Gly	Ala	Asp	Arg	Ile	Pro
		435					440					445			
Glu	Asp	His	Lys	Tyr	Ala	Thr	Ser	Ile	Leu	Ala	Leu	Asp	Ala	Thr	Thr
	450					455					460				
Gly	Lys	Glu	Lys	Trp	Val	Tyr	Gln	Thr	Val	His	Asn	Asp	Leu	Trp	Asp
465					470					475					480
Phe	Asp	Ile	Pro	Met	Gln	Pro	Ser	Leu	Val	Asp	Phe	Pro	Thr	Lys	Glu
			485						490					495	
Gly	Asn	Lys	Pro	Ala	Val	Val	Val	Gly	Thr	Lys	Ala	Gly	Gln	Ile	Tyr
			500					505					510		
Val	Leu	Asp	Arg	Leu	Thr	Gly	Lys	Pro	Leu	Thr	Glu	Val	Lys	Glu	Val
	515						520					525			
Pro	Val	Lys	Pro	Ala	Asp	Ile	Pro	Arg	Glu	Gln	Tyr	Pro	Ala	Thr	Gln
	530					535					540				
Pro	Arg	Ser	Val	Gly	Met	Pro	Gln	Ile	Gly	Ala	Glu	Thr	Leu	Lys	Glu
545					550					555					560
Ser	Asp	Met	Trp	Gly	Ala	Thr	Pro	Phe	Asp	Gln	Leu	Ala	Cys	Arg	Ile
			565						570					575	
Ser	Phe	Lys	Ser	Met	Arg	Tyr	Asp	Gly	Leu	Tyr	Thr	Met	Pro	Gly	Thr

			580					585				590		
Asp	Ile	Ser	Leu	Ser	Phe	Pro	Gly	Ser	Leu	Gly	Gly	Met	Asn	Trp
		595					600					605		
Ser	Leu	Ser	Thr	Asp	Pro	Asn	Asn	Gln	Tyr	Ile	Phe	Val	Asn	Asp
	610					615					620			
Arg	Leu	Gly	Leu	Trp	Val	Gln	Leu	Ile	Lys	Gln	Asp	Pro	Gln	Ser
625					630					635				640
Val	Ala	Asn	Thr	Gly	Gly	Glu	Ala	Val	Asn	Ala	Gly	Met	Gly	Ala
				645					650					655
Pro	Met	Lys	Gly	Thr	Pro	Tyr	Ser	Val	Asn	Lys	Asn	Arg	Phe	Met
			660					665					670	
Pro	Leu	Gly	Ile	Pro	Cys	Gln	Lys	Pro	Pro	Phe	Gly	Ser	Leu	Ser
		675					680					685		
Ile	Asp	Leu	Lys	Thr	Gln	Lys	Ile	Val	Trp	Gln	Val	Pro	Val	Gly
	690					695					700			
Val	Gln	Asp	Thr	Gly	Pro	Phe	Gly	Val	Lys	Met	Arg	Met	Gln	Met
705					710					715				720
Val	Gly	Met	Pro	Thr	Leu	Gly	Gly	Thr	Leu	Ala	Thr	Gln	Gly	Gly
				725					730					735
Val	Phe	Ile	Ala	Gly	Thr	Gln	Asp	Tyr	Tyr	Leu	Arg	Ala	Phe	Asp
			740					745					750	
Ser	Thr	Gly	Glu	Glu	Val	Trp	Lys	Ala	Arg	Leu	Pro	Val	Gly	Ser
		755					760					765		
Gly	Gly	Pro	Ile	Ser	Tyr	Val	Ser	Pro	Lys	Thr	Gly	Lys	Gln	Tyr
	770					775					780			
Leu	Ile	Ser	Ala	Gly	Gly	Ala	Arg	Gln	Ser	Pro	Asp	Arg	Gly	Asp
785					790					795				800
Val	Ile	Ala	Tyr	Ala	Leu	Asp	Lys							
				805										

<210> 10172

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10172

Leu	Asn	Arg	Val	His	Ala	Asn	Arg	Gln	Asn	Ser	Arg	Arg	Ser	Arg	Pro
1			5						10					15	
Met	Gln	Gln	Phe	Glu	Trp	Ile	His	Ala	Ala	Trp	Leu	Ala	Phe	Ala	Ile
			20					25					30		
Val	Leu	Glu	Ile	Ile	Ala	Asn	Val	Phe	Leu	Lys	Phe	Ser	Asp	Gly	Phe
		35					40					45			
Arg	Arg	Lys	Ala	Tyr	Gly	Leu	Leu	Ser	Ile	Ala	Ala	Val	Leu	Gly	Ala
	50					55					60				
Phe	Ser	Ala	Leu	Ser	Gln	Ala	Val	Lys	Gly	Ile	Asp	Leu	Ser	Val	Ala
65				70					75					80	
Tyr	Ala	Leu	Trp	Gly	Gly	Phe	Gly	Ile	Ala	Ala	Thr	Leu	Ala	Ala	Gly
			85					90					95		
Trp	Ile	Met	Phe	Gly	Gln	Arg	Leu	Asn	Asn	Lys	Gly	Trp	Ile	Gly	Leu
			100				105						110		
Val	Leu	Leu	Leu	Ala	Gly	Met	Ile	Met	Ile	Lys	Leu	Ala			
		115					120					125			

<210> 10173

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10173

Tyr	Phe	Lys	Asn	Met	Asn	Ile	Glu	Leu	Arg	His	Leu	Arg	Tyr	Phe	Val
1				5					10					15	

Ala Val Ala Glu Glu Leu His Phe Gly Arg Ala Ala Ala Arg Leu Asn
 20 25 30
 Ile Ser Gln Pro Pro Leu Ser Gln Gln Ile Gln Ile Leu Glu Gln Gln
 35 40 45
 Val Gly Ala Arg Leu Leu Ala Arg Thr Asn Arg Ser Val Ser Leu Thr
 50 55 60
 Ala Ala Gly Lys Gln Phe Leu Ala Asp Ser Arg Gln Ile Leu Ser Met
 65 70 75 80
 Val Glu Asp Ala Ala Ala Arg Ala Glu Arg Leu Tyr Leu Gly Glu Thr
 85 90 95
 Gly Glu Leu Arg Ile Gly Phe Thr Ser Ser Ala Pro Phe Ile Ser Ala
 100 105 110
 Val Ser Gln Thr Leu Ser Ser Phe Arg Arg Asn Phe Pro Asp Val His
 115 120 125
 Ile Gln Thr Arg Glu Ile Asn Thr Arg Glu Gln Ile Ser Pro Leu Asn
 130 135 140
 Glu Gly Ser Leu Asp Leu Gly Leu Met Arg Asn Thr Gln Leu Pro Asp
 145 150 155 160
 Thr Leu Ala Trp Gln Val Ile Leu Arg Glu Pro Leu Met Ala Met Ile
 165 170 175
 Pro Arg Asp His Pro Leu Ala Ala Gln His Ser Val Thr Leu Ala Glu
 180 185 190
 Leu Ala Lys Glu Pro Phe Val Phe Phe Asp Pro Gln Val Gly Thr Gly
 195 200 205
 Leu Tyr Asp Asp Ile Leu Gly Leu Met Arg Arg Tyr Gly Leu Val Pro
 210 215 220
 Thr Ile Ala Gln Glu Val Gly Glu Ala Met Thr Ile Ile Gly Leu Val
 225 230 235 240
 Ala Ala Gly Leu Gly Val Ser Ile Leu Pro Ala Ser Phe Lys Arg Val
 245 250 255
 Gln Leu Ala Glu Met Arg Trp Val Lys Ile Ala Glu Gln Asp Ala Val
 260 265 270
 Ser Glu Met Trp Leu Val Trp Ser Lys His His Glu Gln Ser His Ala
 275 280 285
 Ala Gln Arg Phe Lys Glu Gln Leu Ile Thr Ala Ser Arg Gly His Tyr
 290 295 300
 Leu
 305

<210> 10174

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10174

Gly Ser Glu Met Thr Lys Ile Thr Pro Glu Tyr Thr Val Val Asp Leu
 1 5 10 15
 Ser Arg Trp Ala Arg Lys Glu His Phe Glu Val Phe Gln Gly Phe Ala
 20 25 30
 Gln Ser Thr Phe Asn Gln Thr Val Gln Leu Asp Ile Thr Val Leu Leu
 35 40 45
 Lys His Ile Lys Glu Val Gly Trp Lys Phe Tyr Pro Ala Ile Ile Ser
 50 55 60
 Leu Ile Ser His Val Val Asn Arg His Pro Glu Phe Arg Met Ala Met
 65 70 75 80
 Lys Asp Asp Glu Leu Val Ile Trp Asn Glu Val His Pro Ser Tyr Thr
 85 90 95
 Leu Phe His Lys Glu Thr Glu Thr Phe Ser Ser Leu Trp Ser His Tyr
 100 105 110
 Asp Gly Asn Ile His His Phe Gln Arg Val Tyr Ala Glu Asp Val Ala
 115 120 125

Arg Tyr Gly Asn Ile Leu Ala Tyr Trp Pro Lys Glu Glu Ser Arg Glu
 130 135 140
 Asn Ile Phe Phe Ile Ser Asp Ile Pro Trp Val Ser Phe Ser Ser Phe
 145 150 155 160
 Asn Val Asn Val Ala Asn Met Arg Asn Phe Phe Ala Pro Met Phe Thr
 165 170 175
 Phe Gly Lys Tyr Tyr Asn Gln Asp Glu Lys Val Leu Leu Pro Phe Ala
 180 185 190
 Val Gln Val His His Ser Val Cys Asp Gly Phe His Val Ala Arg Met
 195 200 205
 Ile Asn Glu Leu Gln Glu Leu Cys Asp Asn Leu Pro His His Ser Glu
 210 215 220
 Ala Pro Asn Val
 225

<210> 10175

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10175

Thr Val Asn Asp Val Asn Lys Tyr Ala Ala Ile Thr Leu Leu Ala Thr
 1 5 10 15
 Val Leu Val Gly Cys Asp Asn Asn Thr Ala Pro Leu Ser Phe Thr Pro
 20 25 30
 Glu Met Ala Ser Phe Ser Asn Glu Phe Asp Phe Asp Pro Leu Arg Gly
 35 40 45
 Pro Val Lys Asp Phe Thr Gln Thr Leu Phe Asn Asp Lys Gly Glu Val
 50 55 60
 Ser Lys Arg Val Thr Gly Thr Met Ser Thr Glu Gly Cys Phe Asp Thr
 65 70 75 80
 Leu Glu Leu His Asp Leu Glu Ala Asn Thr Gly Val Ala Leu Val Leu
 85 90 95
 Asp Ala Asn Tyr Tyr Val Asp Ala Glu Thr Gln Gln Gln Lys Val Lys
 100 105 110
 Leu Gln Gly Lys Cys Gln Leu Ala Glu Leu Pro Ser Ala Gly Leu Thr
 115 120 125
 Trp Asp Thr Asp Asp Asn Gly Phe Val Val Ala Ala His Ser Lys Glu
 130 135 140
 Met Glu Val Lys Tyr Gln Tyr Asp Ala Asp Gly Tyr Pro Leu Gly Lys
 145 150 155 160
 Thr Thr Val Ser Gly Asp Gln Arg Leu Ser Val Lys Ser Val Pro Ser
 165 170 175
 Lys Asp Leu Arg Lys Arg Met Asp Tyr Thr Ala Val Ser Leu Leu Asn
 180 185 190
 Asp Lys Pro Met Gly Asn Val Lys Gln Ser Cys Asp Tyr Asp Arg His
 195 200 205
 Asn Asn Pro Val Asn Cys Glu Leu Ile Thr Asp Asp Ser Val Lys
 210 215 220
 Pro Ala Val Glu Arg Lys Tyr Thr Ile Lys Asn Ser Ile Glu Tyr Tyr
 225 230 235 240

<210> 10176

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 10176

Glu Ala Gly Ser Glu Ile Pro Val Arg Ser Gly Leu Ser Ala Gly Gly

1				5					10				15
Pro	Ser	Gly	Arg	Arg	His	Ser	Leu	Glu	Leu	Val	Asn	Glu	Glu
			20					25				30	Met
Met	Lys	Ser	Val	Val	Ile	Gln	Gln	Pro	Asn	Ala	Leu	Glu	Ile
		35					40					45	Glu
Arg	Pro	Leu	Pro	Leu	Pro	Gly	Ala	Gly	Asp	Val	Arg	Val	Lys
	50					55					60		Ile
Leu	Ala	Gly	Ile	Cys	Gly	Ser	Asp	Ser	His	Ile	Tyr	Arg	Gly
65					70					75			His
Pro	Phe	Ala	Lys	Tyr	Pro	Arg	Val	Ile	Gly	His	Glu	Phe	Phe
			85						90				Gly
Ile	Asp	Ala	Val	Gly	Glu	Gly	Val	Glu	Gly	Thr	Arg	Leu	Gly
			100					105					Gln
Val	Ser	Val	Asp	Pro	Val	Ile	Ser	Cys	Gly	His	Cys	Tyr	Pro
		115					120					125	Cys
Val	Gly	Lys	Pro	Asn	Val	Cys	Thr	Ser	Leu	Val	Val	Leu	Gly
	130					135					140		Val
Arg	Asp	Gly	Gly	Phe	Ser	Glu	Tyr	Ala	Val	Val	Pro	Ala	Lys
145					150					155			Asn
Trp	His	Ile	Pro	Asp	Ala	Ile	Pro	Asp	Lys	His	Ala	Val	Met
			165						170				Val
Pro	Phe	Thr	Ile	Ala	Ala	Asn	Val	Thr	Gly	Gln	Ala	Lys	Pro
			180					185					Thr
Gln	Asp	Val	Ala	Leu	Ile	Tyr	Gly	Ala	Gly	Pro	Met	Gly	Leu
	195						200					205	Val
Val	Gln	Ala	Leu	Lys	Gly	Val	Tyr	Lys	Val	Lys	Gln	Val	Ile
	210				215						220		Val
Asp	Arg	Ile	Asp	Glu	Arg	Leu	Glu	Met	Ala	Gln	Arg	Ser	Gly
225					230					235			Ala
Trp	Val	Phe	Asn	Asn	Gly	Glu	Gln	Ser	Leu	Gln	Thr	Ala	Leu
			245						250				Asp
Lys	Gly	Ile	Lys	Pro	Thr	Leu	Ile	Ile	Asp	Ala	Ala	Cys	His
			260					265					Pro
Ile	Leu	Gln	Glu	Ala	Ile	Thr	Leu	Ala	Ser	Pro	Ala	Ala	Arg
	275						280					285	Ile
Leu	Met	Gly	Phe	Ser	Ser	Asp	Pro	Ser	Gln	Ile	Val	Gln	Gln
	290					295					300		Ile
Thr	Gly	Lys	Glu	Leu	Ser	Ile	Phe	Ser	Ser	Arg	Leu	Asn	Ala
305					310					315			Asn
Phe	Pro	Val	Val	Ile	Asp	Trp	Leu	Glu	Lys	Gly	Leu	Ile	Asp
			325						330				Pro
Lys	Leu	Val	Thr	His	Thr	Phe	Asp	Tyr	His	His	Val	Thr	Asp
			340					345					Ala
Glu	Leu	Phe	Glu	Lys	Asp	Gln	Arg	Gln	Cys	Cys	Lys	Val	Leu
	355						360					365	Leu
Phe	Asp	Gln											Thr
	370												

<210> 10177

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10177

Thr	Met	Ser	Val	Asn	Asn	Pro	Phe	Phe	Glu	Ile	Ser	Leu	Leu	Pro	Tyr
1				5					10					15	
Gln	Ala	Pro	Arg	Phe	Asp	Ala	Ile	Asn	Asp	Ser	His	Tyr	Arg	Pro	Ala
			20					25					30		
Phe	Asp	Glu	Ala	Met	Arg	Leu	Lys	Arg	Ala	Asp	Ile	Asp	Ala	Ile	Ile
	35						40					45			
Ala	Gln	Arg	Ala	Ala	Pro	Asp	Phe	Asp	Asn	Thr	Val	Leu	Ala	Leu	Glu

	50					55					60				
Lys 65	Ser	Gly	Ala	Met	Leu 70	Ser	Arg	Val	Ser	Ser 75	Val	Phe	Phe	Ala	Met 80
Thr	Ser	Ala	His	Thr 85	Asn	Asp	Asp	Leu	Gln 90	Ala	Leu	Asp	Glu	Gln 95	Phe
Ser	Thr	Glu	Leu 100	Ala	Gly	Leu	Ala	Asn 105	Asp	Ile	Trp	Leu	Asn 110	Asp	Thr
Leu	Phe	Ala	Arg 115	Val	Glu	Ala	Val 120	Trp	Gln	Asp	Arg	Glu 125	Ala	Leu	Asp
Ala	Glu	Ser	Arg	Arg	Leu	Thr 135	Glu	Glu	Thr	Tyr	Gln 140	His	Phe	Val	Leu
Ala 145	Gly	Ala	Arg	Leu	Asn 150	Ala	Asp	Glu	Lys	Ala 155	Glu	Leu	Lys	Ser	Leu 160
Asn	Thr	Glu	Ala	Ala 165	Thr	Leu	Thr	Ser	Gln 170	Phe	Asn	Gln	Arg	Leu 175	Leu
Ala	Ala	Asn	Lys 180	Ala	Gly	Gly	Leu	Val 185	Val	Asp	Asp	Val	Arg	Gln	Leu
Asp	Gly	Leu 195	Ser	Ala	Glu	Glu	Met 200	Ala	Ala	Ala	Ala	His 205	Ala	Ala	Ala
Glu	Lys 210	Gly	Leu	Lys	Glu	Arg 215	Trp	Leu	Ile	Pro	Leu 220	Leu	Asn	Thr	Thr
Gln 225	Gln	Pro	Ala	Leu 230	Ala	Ala	Leu	Ala	Leu	Arg 235	Glu	Thr	Arg	Lys	Lys 240
Leu	Phe	Ser	Ala 245	Gly	Trp	Glu	Arg	Thr	Gln 250	Lys	Gly	Asp	Glu	Asn 255	Asp
Thr	Arg	Glu	Leu 260	Ile	Arg	Arg	Leu	Thr 265	Ala	Leu	Arg	Ala	Arg 270	Gln	Ala
Gln	Leu	Leu	Gly 275	Phe	Asp	Asn	Tyr 280	Ala	Ser	Trp	Ser	Ile 285	Ala	Asp	Gln
Met	Ala 290	Lys	Thr	Pro	Glu	Ala 295	Ala	Leu	Glu	Phe	Met 300	Arg	Gly	Ile	Val
Pro 305	Ala	Ala	Arg	Gly 310	Arg	Ala	Ala	Leu	Glu	Gln 315	Ala	Asp	Ile	Gln	Lys 320
Val	Ile	Asp	Asp 325	Glu	Gln	Gly	Gly	Phe	Thr 330	Val	Gln	Ala	Trp	Asp 335	Trp
Ala	Phe	Tyr	Ala 340	Glu	Arg	Val	Arg	Ser 345	Ala	Lys	Tyr	Ala	Leu 350	Asp	Glu
Ser	Gln	Ile	Lys 355	Pro	Tyr	Phe	Ala 360	Leu	Asn	Thr	Val	Leu 365	Glu	Asp	Gly
Val	Phe 370	Trp	Thr	Ala	Thr	Gln 375	Leu	Phe	Gly	Ile	Arg 380	Phe	Val	Glu	Arg
Phe 385	Asp	Ile	Pro	Val 390	Tyr	His	Pro	Asp	Val	Arg 395	Val	Trp	Glu	Ile	Phe 400
Asp	His	Thr	Gly 405	Glu	Gly	Met	Ala	Leu	Phe 410	Tyr	Gly	Asp	Phe	Phe 415	Ala
Arg	Asp	Ser	Lys 420	Ala	Gly	Gly	Ala	Trp 425	Met	Gly	Asn	Phe	Val 430	Glu	Gln
Ser	Tyr 435	Glu	Phe	Ala	Ala	Arg	Pro 440	Val	Ile	Tyr	Asn	Val 445	Cys	Asn	Tyr
Gln	Lys 450	Pro	Ala	Asn	Gly	Gln 455	Thr	Ala	Leu	Ile	Ser	Trp	Asp	Asp	Val
Ile 465	Thr	Leu	Phe	His 470	Glu	Phe	Gly	His	Thr	Leu 475	His	Gly	Leu	Phe	Ala 480
Ser	Gln	Arg	Tyr 485	Ala	Thr	Leu	Ser	Gly	Thr 490	Asn	Thr	Pro	Arg	Asp 495	Phe
Val	Glu	Phe	Pro 500	Ser	Gln	Ile	Asn	Glu 505	His	Trp	Ala	Ser	His 510	Pro	Gln
Val	Phe 515	Ala	His	Phe	Ala	Arg	His 520	Tyr	Gln	Thr	Gly	Glu 525	Pro	Met	Pro
Asp	Ala 530	Leu	Arg	Glu	Lys	Met 535	Leu	Asn	Ala	Thr	Gln 540	Phe	Asn	Lys	Gly

Tyr Asp Met Thr Glu Leu Leu Ser Ala Ala Leu Leu Asp Met Asn Trp
 545 550 555 560
 His Gly Ile Gln Glu Pro Val Glu Asp Val Glu Ala Phe Glu Ala Ala
 565 570 575
 Ala Leu Lys Lys Glu Gly Leu Asp Leu Pro Ala Val Pro Pro Arg Tyr
 580 585 590
 Arg Ser Ser Tyr Phe Ala His Ile Phe Gly Gly Gly Tyr Ala Ala Gly
 595 600 605
 Tyr Tyr Ala Tyr Leu Trp Thr Gln Met Leu Ala Asp Asp Gly Tyr Gln
 610 615 620
 Trp Phe Val Glu Gln Gly Gly Leu Thr Arg Glu Asn Gly Gln Thr Phe
 625 630 635 640
 Arg Glu Ala Ile Leu Ser Arg Gly Asn Ser Thr Asp Leu Ala Glu Leu
 645 650 655
 Tyr Arg Asn Trp Arg Gly His Asp Pro Lys Ile Glu Pro Met Leu Glu
 660 665 670
 Asn Arg Gly Leu Ser Ala
 675

<210> 10178

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10178

Ile Gly His Lys Glu Thr Gly Val Arg Asn Val Lys Ile Glu Glu Val
 1 5 10 15
 Glu Gln Leu Asp Arg Glu Val Val Ala Ile Gly Asn Asp Tyr Val Gln
 20 25 30
 Gly Phe Met Leu Pro Gln His Lys His Arg Arg Ala Gln Leu Leu Tyr
 35 40 45
 Gly Ala Thr Gly Leu Met His Val Ile Thr Gln Asp Gly Glu Trp Ile
 50 55 60
 Val Pro Pro Gln His Ala Val Trp Ile Pro Pro Glu Thr Met His Ala
 65 70 75 80
 Val Lys Phe Val Gly Val Thr Thr Arg Ser Leu Tyr Ile Glu Pro Asp
 85 90 95
 Phe Val Asn Ala Phe Leu Lys Tyr Pro Arg Cys Glu Val Ile Ser Val
 100 105 110
 Ser Pro Leu Leu Arg Gln Leu Leu Leu Glu Ser Val Asp Leu Pro Pro
 115 120 125
 Leu Tyr Glu Ser Thr Arg Asp Arg Ala Leu Ile Asn Leu Met Ile Leu
 130 135 140
 Glu Leu Ala Ala Met Pro Val Arg Glu Phe Asp Ile Pro Leu Pro Arg
 145 150 155 160
 His Pro Ala Leu Leu Ala Leu Cys Gln Ala Phe Leu Leu Asn Pro Ser
 165 170 175
 Ile His Asp Pro Ala Glu Arg Trp Ala Asn Ala Leu Phe Met Ser Asp
 180 185 190
 Ser Thr Phe Arg Arg His Phe Leu Lys Gln Met Gly Met Ser Phe Ser
 195 200 205
 Val Trp Arg Gln Arg Ala Cys Val Val Ser Ala Leu Ala Leu Leu Ile
 210 215 220
 Thr Gly Lys Pro Val Asn Glu Val Ala Leu Thr Leu Gly Tyr Asp Asn
 225 230 235 240
 Ala Ser Ser Phe Ala Thr Met Phe Arg Arg Val Thr Gly Gln Pro Pro
 245 250 255
 Ser Tyr Tyr His Pro Ala Leu Phe Lys Lys Phe His Gly Thr Gly His
 260 265 270
 Arg Ser
 275

<210> 10179
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 10179
 Ile Met Ile Asn Lys Ile Leu Val Ser Ala Cys Leu Met Gly Leu Lys
 1 5 10 15
 Val Arg Tyr Asn Gly Lys Glu Lys Ala Gln Met Thr His Gln Leu Ala
 20 25 30
 Arg Trp Gln Gln Glu Gln Arg Leu Val Ile His Cys Pro Glu Leu Ala
 35 40 45
 Ala Gly Leu Pro Val Pro Arg Pro Pro Ala Glu Ile Met Ser Ala Glu
 50 55 60
 Gly Lys Asp Val Met Arg Gly Gln Ala Arg Ile Ile Glu Asn Thr Gly
 65 70 75 80
 Thr Asp Val Thr Gly His Tyr Gln Leu Ala Ala Trp Leu Ala Leu Arg
 85 90 95
 Ala Ala Gln Glu Ala Gly Cys Thr Ala Ala Leu Leu Thr Asp Gly Ser
 100 105 110
 Pro Thr Cys Gly Thr Gln Phe Ile Tyr Asn Gly Ser Phe Ser Asn Gln
 115 120 125
 Arg Lys Ser Gly Met Gly Val Ala Ala Ser Leu Leu Ser Glu His Gly
 130 135 140
 Ile Ala Val Phe Ser Glu Thr Gln Phe Ala Glu Leu Val Asn Trp Ile
 145 150 155 160
 Glu Glu Arg Glu
 165

<210> 10180
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 10180
 Ile Tyr Arg Phe Ile Asn Arg Arg Asn Asp Met Lys Lys Ala Leu Leu
 1 5 10 15
 Gly Ser Val Leu Ala Leu Thr Val Ala Ser Phe Gly Ala Ser Ala Ala
 20 25 30
 Asp Met Ile Ser Lys Asp Glu Ala His His Phe Lys Leu Glu Tyr Leu
 35 40 45
 Gly Asn Val Ser Val Gly Ala Ser Gly Gly Gln Ile Ser Ser Pro Ser
 50 55 60
 Asp Leu His Gln Lys Leu Ser Lys Leu Ala Asp Glu Lys Gly Gly Lys
 65 70 75 80
 Tyr Tyr Val Ile Ile Ala Ala Arg Glu His Gly Pro Asn Phe Gln Ala
 85 90 95
 Val Ala Glu Val Phe Lys
 100

<210> 10181
 <211> 530
 <212> PRT
 <213> Enterobacter cloacae

<400> 10181
 Gln Ser Glu Cys His Thr Asp Lys Ser Arg Asn Ala Ile Pro Leu Leu
 1 5 10 15
 Asp Cys Ile His Thr Leu Arg Ser Ile Thr Lys Glu Tyr Pro Met Ser
 20 25 30

Glu	Ser	His	Val	Ala	Ile	Leu	Pro	Gly	Val	Gln	Gln	Phe	Leu	Asp	Arg
		35					40					45			
Gln	His	Gly	Leu	Trp	Ile	Glu	Gly	Arg	Gln	Ala	Ala	Ser	Asp	Ser	Glu
	50					55					60				
Lys	Arg	Leu	Asn	Val	Tyr	Asn	Pro	Ala	Thr	Gly	Glu	Val	Ile	Ala	Ser
65					70					75					80
Thr	Ala	Asp	Ala	Ser	Val	Asp	Asp	Val	Asp	Arg	Ala	Val	Met	Ser	Gly
				85					90					95	
Trp	Arg	Ala	Phe	Val	Ala	Arg	Ser	Trp	Ala	Gly	Arg	Leu	Pro	Ala	Glu
		100						105					110		
Arg	Glu	Arg	Ile	Leu	Leu	Arg	Phe	Ala	Asp	Leu	Val	Glu	Gln	His	Gly
	115						120					125			
Glu	Glu	Leu	Ala	Gln	Leu	Glu	Thr	Leu	Glu	Gln	Gly	Lys	Ser	Ile	Asn
	130					135					140				
Ile	Ser	Arg	Ala	Phe	Glu	Val	Gly	Cys	Thr	Leu	Asn	Trp	Met	Arg	Tyr
145					150					155					160
Thr	Ala	Gly	Leu	Thr	Thr	Lys	Ile	Ala	Gly	Lys	Thr	Leu	Asp	Leu	Ser
				165					170					175	
Ile	Pro	Leu	Pro	Gln	Gly	Ala	Arg	Tyr	Gln	Ala	Trp	Thr	Arg	Lys	Glu
			180					185					190		
Pro	Val	Gly	Val	Val	Ala	Gly	Ile	Val	Pro	Trp	Asn	Phe	Pro	Leu	Met
		195						200				205			
Ile	Gly	Met	Trp	Lys	Val	Met	Pro	Ala	Leu	Ala	Ala	Gly	Cys	Ser	Ile
	210					215					220				
Val	Ile	Lys	Pro	Ser	Glu	Thr	Thr	Pro	Leu	Thr	Leu	Leu	Arg	Val	Ala
225					230					235					240
Glu	Leu	Ala	Ser	Glu	Ala	Gly	Ile	Pro	Asp	Gly	Val	Phe	Asn	Val	Val
				245					250					255	
Thr	Gly	Ser	Gly	Ala	Val	Cys	Gly	Ala	Ala	Leu	Thr	Ser	His	Pro	Arg
			260					265					270		
Ile	Ala	Lys	Val	Ser	Phe	Thr	Gly	Ser	Thr	Ala	Thr	Gly	Lys	Gln	Ile
		275					280					285			
Ala	Arg	Val	Ala	Ala	Asp	Thr	Leu	Thr	Gly	Val	Thr	Leu	Glu	Leu	Gly
	290					295					300				
Gly	Lys	Asn	Pro	Ala	Ile	Val	Leu	Lys	Asp	Ala	Asp	Pro	Ala	Trp	Val
305					310					315					320
Ile	Glu	Gly	Leu	Met	Thr	Gly	Ser	Phe	Leu	Asn	Gln	Gly	Gln	Val	Cys
				325					330					335	
Ala	Ala	Ser	Ser	Arg	Ile	Tyr	Ile	Glu	Ala	Pro	Leu	Phe	Asp	Thr	Leu
				340				345					350		
Val	Ser	Gly	Phe	Glu	Gln	Ala	Val	Lys	Ser	Leu	Ser	Val	Gly	Pro	Gly
		355					360					365			
Met	Ser	Pro	Asp	Ala	Phe	Ile	Asn	Pro	Leu	Val	Ser	Arg	Ala	His	Cys
	370					375					380				
Asp	Lys	Val	Gln	Ala	Phe	Leu	Asp	Glu	Ala	Lys	Ala	His	Asn	Ala	Glu
385					390					395					400
Leu	Ile	Ala	Gly	Asn	Arg	Gly	Pro	Asp	Gly	Lys	Gly	Tyr	Tyr	Val	Ser
				405					410					415	
Pro	Thr	Leu	Val	Val	Asn	Pro	Asp	Asn	His	Leu	Arg	Leu	Thr	Arg	Glu
		420						425					430		
Glu	Val	Phe	Gly	Pro	Val	Val	Asn	Leu	Val	Arg	Val	Asp	Asp	Gly	Glu
		435					440					445			
Glu	Ala	Leu	Gln	Leu	Ala	Asn	Asp	Thr	Glu	Tyr	Gly	Leu	Thr	Ala	Ser
	450					455					460				
Val	Trp	Thr	Gln	Asn	Ile	Ser	Lys	Ala	Leu	Ala	Tyr	Thr	Asp	Arg	Leu
465					470					475					480
Gln	Ala	Gly	Thr	Val	Trp	Val	Asn	Ser	His	Thr	Leu	Ile	Asp	Ala	Asn
				485					490					495	
Leu	Pro	Phe	Gly	Gly	Met	Lys	Gln	Ser	Gly	Thr	Gly	Arg	Asp	Phe	Gly
		500						505					510		
Pro	Asp	Trp	Leu	Asp	Gly	Trp	Cys	Glu	Thr	Lys	Ser	Val	Cys	Val	Arg

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<210> 10182
<211> 333
<212> PRT
<213> Enterobacter cloacae
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<210> 10183
<211> 100
<212> PRT
<213> Enterobacter cloacae
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<400> 10183
Glu Glu Ser Thr Met Ser Asn Val Tyr Trp Pro Leu Tyr Glu Val Phe
1 5 10 15

Val Arg Ser Lys Gln Gly Leu Ser His Arg His Val Gly Ser Leu His
 20 25 30
 Ala Ala Asp Asp Arg Met Ala Leu Glu Asn Ala Arg Asp Ala Tyr Thr
 35 40 45
 Arg Arg Ser Glu Gly Cys Ser Ile Trp Val Val Lys Ala Ser Glu Ile
 50 55 60
 Val Ala Ser Gln Pro Glu Glu Ser Gly Glu Phe Phe Asp Pro Ala Glu
 65 70 75 80
 Ser Lys Val Tyr Arg His Pro Thr Phe Tyr Thr Ile Pro Asp Gly Ile
 85 90 95
 Glu His Met
 100

<210> 10184

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 10184

Arg Thr Leu Ile Val Glu Ser Ile Leu Ser His Val Glu Gln Gly Val
 1 5 10 15
 Met Thr Ile Thr Leu Asn Arg Pro Glu Arg Leu Asn Ser Phe Asn Asp
 20 25 30
 Val Met His Gln Gln Leu Ser Glu Cys Leu Lys Gln Ala Glu Arg Asp
 35 40 45
 Asp Ala Ile Arg Cys Leu Leu Ile Ile Gly Ala Gly Arg Gly Phe Cys
 50 55 60
 Ala Gly Gln Asp Leu Asn Asp Arg Asn Val Asp Pro Asn Gly Pro Ala
 65 70 75 80
 Pro Asp Leu Gly Met Ser Val Glu Thr Phe Tyr Asn Pro Leu Val Arg
 85 90 95
 Arg Leu Ala Lys Leu Pro Lys Pro Val Ile Cys Ala Val Asn Gly Val
 100 105 110
 Ala Ala Gly Ala Gly Ala Thr Leu Ala Leu Gly Cys Asp Met Val Ile
 115 120 125
 Ala Ala Arg Ser Ala Ser Phe Val Met Ala Phe Ser Lys Leu Gly Leu
 130 135 140
 Val Pro Asp Cys Gly Gly Thr Trp Leu Leu Pro Arg Val Ala Gly Arg
 145 150 155 160
 Ala Arg Ala Met Gly Leu Ala Leu Leu Gly Asp Lys Leu Ser Ala Glu
 165 170 175
 Gln Ala Gln Ala Trp Gly Met Ile Trp Gln Val Val Asp Asp Glu Gln
 180 185 190
 Leu Ser Ala Thr Val Gln Gln Met Ala Leu His Phe Ala Ser Gln Pro
 195 200 205
 Thr Phe Gly Leu Gly Leu Ile Lys Gln Ala Ile Asn Ala Ala Glu Thr
 210 215 220
 Asn Thr Leu Asp Ala Gln Leu Asp Leu Glu Arg Asp Tyr Gln Arg Leu
 225 230 235 240
 Ala Gly Arg Ser Asp Asp Tyr Arg Glu Gly Val Ser Ala Phe Leu Ala
 245 250 255
 Lys Arg Ala Pro Asn Phe Thr Gly Lys
 260 265

<210> 10185

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 10185

Cys Glu Tyr Pro Ala Met Ile Asn Thr Thr Lys Leu Asp Pro Ile Glu

1				5					10				15
Thr	Ala	Ser	Ile	Asp	Glu	Leu	Gln	Ala	Leu	Gln	Thr	Ala	Arg
			20					25				30	Leu
Trp	Thr	Leu	Asn	His	Ala	Tyr	Asn	Val	Pro	Met	Tyr	Lys	Arg
		35					40				45		Lys
Phe	Asp	Ala	Ala	Gly	Val	His	Pro	Asp	Asp	Phe	Asn	Glu	Leu
	50					55				60		Ala	Asp
Leu	Gln	Lys	Phe	Pro	Cys	Thr	Thr	Lys	Gln	Asp	Leu	Arg	Asp
65					70				75				Asn
Pro	Phe	Asp	Thr	Phe	Ala	Val	Pro	Met	Glu	Gln	Val	Val	Arg
				85					90				Ile
Ala	Ser	Ser	Gly	Thr	Thr	Gly	Lys	Pro	Thr	Val	Val	Gly	Tyr
			100					105				110	Thr
Asn	Asp	Ile	Asp	Asn	Trp	Ala	Asn	Ile	Val	Ala	Arg	Ser	Leu
		115					120					125	Arg
Ala	Gly	Gly	Ser	Ala	Lys	Asp	Lys	Ile	His	Val	Ala	Tyr	Gly
	130					135					140		Tyr
Leu	Phe	Thr	Gly	Gly	Leu	Gly	Ala	His	Tyr	Gly	Ala	Glu	Arg
145					150					155			Leu
Ala	Thr	Val	Ile	Pro	Met	Ser	Gly	Gly	Gln	Thr	Glu	Lys	Gln
				165					170				Ala
Leu	Ile	Arg	Asp	Phe	Gln	Pro	Asp	Met	Ile	Met	Val	Thr	Pro
			180					185					Ser
Cys	Leu	Asn	Leu	Ile	Glu	Glu	Leu	Glu	Arg	Gln	Met	Gly	Gly
		195					200				205		Asp
Ser	Ala	Cys	Ser	Leu	Arg	Val	Gly	Val	Phe	Gly	Ala	Glu	Pro
	210					215				220			Trp
Gln	Ala	Met	Arg	Arg	Glu	Ile	Glu	Lys	Arg	Leu	Gly	Ile	Thr
225					230					235			Ala
Asp	Ile	Tyr	Gly	Leu	Ser	Glu	Val	Met	Gly	Pro	Gly	Val	Ala
				245					250				Met
Cys	Leu	Glu	Thr	Ala	Asp	Gly	Pro	Thr	Ile	Trp	Glu	Asp	His
		260						265				270	Phe
Pro	Glu	Ile	Val	Asn	Pro	Asn	Asp	Gly	Thr	Pro	Leu	Ala	Asp
		275					280					285	Gly
Gln	Gly	Glu	Leu	Leu	Phe	Thr	Thr	Leu	Thr	Lys	Glu	Ala	Leu
	290					295					300		Pro
Ile	Arg	Tyr	Arg	Thr	Arg	Asp	Leu	Thr	Arg	Leu	Leu	Pro	Gly
305					310					315			Thr
Arg	Thr	Met	Arg	Arg	Met	Asp	Arg	Ile	Ser	Gly	Arg	Ser	Asp
				325					330				Asp
Leu	Ile	Ile	Arg	Gly	Val	Asn	Val	Phe	Pro	Ser	Gln	Leu	Glu
			340					345				350	Glu
Ile	Val	Lys	Phe	Glu	His	Leu	Ser	Pro	His	Tyr	Gln	Leu	Glu
		355					360					365	Val
Arg	Arg	Gly	His	Leu	Asp	Ser	Leu	Ser	Val	Lys	Val	Glu	Leu
	370					375					380		Lys
Ser	Ser	Leu	Thr	Leu	Thr	His	Glu	Gln	Arg	Cys	Gln	Val	Cys
385					390					395			His
Leu	Arg	His	Arg	Ile	Lys	Ser	Met	Val	Gly	Ile	Ser	Thr	Asp
				405					410				Val
Ile	Val	Asn	Cys	Gly	Ser	Ile	Pro	Arg	Ser	Glu	Gly	Lys	Ala
		420						425					Cys
Val	Phe	Asp	Leu	Arg	Lys	Val	Ala	Ala	Asn	Gly			Arg
		435					440						

<210> 10186

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10186

Phe	Ile	Gln	Glu	Lys	Asn	Asn	Asn	Arg	Met	Asn	His	Met	Asn	Lys	Leu
1				5					10					15	
Asp	Ala	Phe	Ile	Gln	His	Ala	Val	Ser	Ser	Val	Pro	Val	Ser	Gly	Thr
			20					25					30		
Ser	Leu	Ile	Ser	Ser	Leu	Tyr	Gly	Asp	Ala	Leu	Ala	His	Arg	Gly	Gly
		35					40					45			
Glu	Ile	Trp	Leu	Gly	Ser	Leu	Ala	Ala	Leu	Leu	Glu	Gly	Met	Gly	Phe
		50				55					60				
Gly	Glu	Arg	Phe	Val	Arg	Thr	Ala	Leu	Phe	Arg	Leu	Asn	Lys	Glu	Gly
65					70				75						80
Trp	Leu	Asp	Val	Ser	Arg	Ile	Gly	Arg	Arg	Ser	Phe	Tyr	Arg	Leu	Ser
				85				90					95		
Asp	Lys	Gly	Leu	Arg	Leu	Thr	Arg	Arg	Ala	Glu	Asn	Lys	Ile	Tyr	Arg
			100					105					110		
Ala	Glu	Leu	Pro	Ala	Trp	Asp	Gly	Lys	Trp	Leu	Leu	Leu	Leu	Ser	Glu
			115				120					125			
Gly	Leu	Asp	Lys	Thr	Thr	Leu	Ala	Asp	Val	Lys	Lys	Gln	Leu	Ile	Trp
		130				135					140				
Gln	Gly	Phe	Gly	Thr	Leu	Ala	Pro	Ser	Leu	Met	Ala	Ser	Pro	Ser	Gln
145					150					155					160
Asn	Leu	Ala	Asp	Val	Gln	Ser	Leu	Leu	His	Asp	Ala	Gly	Val	Ala	Glu
				165					170					175	
Asn	Val	Ile	Phe	Phe	Glu	Ala	His	Ser	Pro	Leu	Ala	Leu	Ser	Arg	Ala
			180					185					190		
Ala	Leu	Arg	Ser	Arg	Val	Glu	Glu	Cys	Trp	Gln	Leu	Thr	Glu	Gln	Asn
		195					200					205			
Ala	Met	Tyr	Glu	Thr	Phe	Ile	Asn	Ser	Phe	Arg	Pro	Leu	Leu	Pro	Leu
		210				215					220				
Leu	Lys	Glu	Thr	Pro	Pro	Glu	Asp	Leu	Thr	Pro	Glu	Arg	Cys	Phe	Gln
225					230					235					240
Ile	Gln	Leu	Leu	Leu	Ile	His	Phe	Tyr	Arg	Arg	Val	Val	Leu	Lys	Asp
				245					250					255	
Pro	Leu	Leu	Pro	Glu	Glu	Leu	Leu	Pro	Ala	His	Trp	Ala	Gly	Gln	Ser
			260					265					270		
Ala	Arg	Gln	Leu	Cys	Ile	Asn	Ile	Tyr	Gln	Arg	Val	Ala	Ala	Gly	Ala
		275					280					285			
Leu	Ala	Phe	Val	Ser	Glu	Lys	Gly	Glu	Thr	Ser	Val	Gly	Glu	Leu	Pro
		290				295					300				
Ala	Pro	Gly	Thr	Leu	Tyr	His	Gln	Arg	Phe	Gly	Gly	Leu	Asn	Ile	Thr
305					310					315					320

<210> 10187

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10187

Gly	Glu	Gly	Met	Pro	Val	Tyr	Gln	Ile	Asp	Gly	Leu	Thr	Pro	Val	Val
1				5					10					15	
Pro	Glu	Glu	Ser	Tyr	Val	His	Pro	Thr	Ala	Val	Leu	Ile	Gly	Asp	Val
			20					25					30		
Ile	Leu	Gly	Lys	Gly	Val	Tyr	Val	Gly	Pro	Asn	Ala	Ser	Leu	Arg	Gly
		35					40					45			
Asp	Phe	Gly	Arg	Ile	Val	Val	Lys	Asp	Gly	Ala	Asn	Ile	Gln	Asp	Asn
		50				55					60				
Cys	Val	Met	His	Gly	Phe	Pro	Glu	Gln	Asp	Thr	Val	Val	Glu	Glu	Asp
65					70					75					80
Gly	His	Ile	Gly	His	Ser	Ala	Ile	Leu	His	Gly	Cys	Ile	Ile	Arg	Arg

				85					90				95				
Asn	Ala	Leu	Val	Gly	Met	Asn	Ala	Val	Val	Met	Asp	Gly	Ala	Thr	Ile		
			100					105					110				
Gly	Glu	Asn	Ser	Ile	Val	Gly	Ala	Ala	Ala	Phe	Val	Lys	Ala	Lys	Ala		
		115					120					125					
Glu	Met	Pro	Ala	Asn	His	Leu	Ile	Leu	Gly	Ser	Pro	Ala	Lys	Ala	Ile		
	130					135					140						
Arg	Glu	Leu	Ser	Ala	Gln	Glu	Ile	Glu	Trp	Lys	Lys	Gln	Gly	Thr	Arg		
145					150					155					160		
Glu	Tyr	Gln	Val	Leu	Val	Asp	Arg	Cys	Lys	Gln	Thr	Leu	His	Gln	Val		
			165						170					175			
Glu	Pro	Leu	Arg	Glu	Glu	Glu	Pro	Gly	Arg	Lys	Arg	Leu	Val	Phe	Asp		
		180						185					190				
Glu	Asn	Leu	Arg	Pro	Lys	Ser	Ala	Gly	Arg	Asp	Lys						
	195						200					205					

<210> 10188

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 10188

Ser	Gly	Val	Asn	Leu	Val	Cys	Arg	His	Ala	Ala	Pro	Arg	Leu	Gly	Thr		
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Glu	Arg	Asp	Cys	Arg	His	Gly	Arg	Phe	Thr	Arg	Phe	Cys	Arg	His	Ala		
		20						25				30					
Ala	Asp	Pro	Gln	Lys	Arg	Phe	Pro	Asp	Ala	Gly	Pro	Gly	Gln	Arg	Gly		
	35					40					45						
Gly	Arg	Arg	Pro	Arg	His	Ser	Ser	Arg	Ser	Gly	Lys	Arg	Glu	Gly	Ser		
	50					55				60							
His	Arg	Val	Ser	Arg	Arg	Val	Gln	Pro	Gly	Ala	Ala	Pro	Ala	Phe	Arg		
65					70				75						80		
Pro	Ala	Arg	Cys	Thr	Ser	Ala	Arg	Thr	Ala	Ala	Gln	Asp	Gly	Ala	Thr		
			85					90					95				
Met	Lys	Ile	Ala	Ile	Ile	Gly	Ser	Gly	Ile	Ala	Gly	Leu	Thr	Cys	Ala		
	100					105						110					
Trp	Arg	Leu	Ala	Gly	His	His	Gln	Ile	Thr	Val	Phe	Glu	Ala	Gln	Ala		
	115					120					125						
Thr	Pro	Gly	Gly	His	Thr	Ala	Thr	Val	Asp	Val	Asp	Thr	Pro	Gln	Ser		
	130				135						140						
Thr	Phe	Ala	Ile	Asp	Thr	Gly	Phe	Ile	Val	Tyr	Asn	Asp	Arg	Thr	Tyr		
145				150					155						160		
Pro	Arg	Phe	Met	Gly	Leu	Leu	Ser	Glu	Leu	Gly	Ile	Ser	Gly	Gln	Lys		
			165					170						175			
Thr	Gln	Met	Ser	Phe	Ser	Val	His	Asn	Pro	Gln	Ser	Gly	Leu	Glu	Tyr		
	180							185					190				
Asn	Gly	His	Thr	Leu	Thr	Ser	Leu	Phe	Ala	Gln	Arg	Arg	Asn	Leu	Leu		
	195					200						205					
Asn	Pro	Ala	Phe	Trp	Thr	Leu	Lys	Glu	Ile	Val	Arg	Phe	Asn	Arg			
	210				215					220							
Leu	Ala	Lys	Gln	Thr	Leu	Arg	Gly	Glu	Val	Asp	Gly	Ser	Ala	Thr	Leu		
225			230						235						240		
Glu	Thr	Phe	Leu	Arg	Gln	His	Arg	Phe	Thr	Pro	Phe	Phe	Ala	Arg	His		
			245					250						255			
Tyr	Ile	Leu	Pro	Met	Gly	Ala	Ala	Ile	Trp	Ser	Ser	Ser	Leu	Gln	Glu		
	260							265					270				
Met	Lys	Arg	Phe	Pro	Leu	Pro	Leu	Phe	Leu	Arg	Phe	Phe	Glu	Asn	His		
	275						280					285					
Gly	Leu	Leu	Asp	Ile	Thr	His	Arg	Pro	Gln	Trp	Tyr	Val	Val	Pro	Gly		
	290				295						300						
Gly	Ser	Arg	Glu	Tyr	Ile	Arg	Ala	Met	Met	Asp	Lys	Leu	Gly	Asp	Arg		


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305          310          315          320
Leu Thr Leu His Leu Asn Ala Pro Val Gln Lys Val Val Arg His Asp
325          330          335
Arg Gly Val Asp Ile Glu Arg Glu Gly Val Thr His Thr Phe Asp Gln
340          345          350
Val Ile Phe Ala Cys His Ser Ala Gln Ala Leu Ala Met Leu Ala Ser
355          360          365
Pro Thr Gln Ala Glu Arg Glu Val Leu Gly Asp Ile Gly Trp Gln Arg
370          375          380
Asn Glu Val Val Leu His Ser Asp Pro Arg Trp Leu Pro Val Arg Lys
385          390          395
Arg Ala Trp Ala Ser Trp Asn Tyr Arg Leu Ser Glu Gln Asp Arg Ala
400          405          410          415
Ser Ala Cys Val Thr Tyr Asn Met Asn Ile Leu Gln Gly Leu Pro Pro
420          425          430
Gly Ser Pro Leu Phe Cys Val Thr Leu Asn Pro Glu Thr Pro Val Glu
435          440          445
Glu Arg Tyr Val Leu Arg Arg Phe Val Tyr Glu His Pro Leu Phe Asn
450          455          460
Pro Gln Ser Trp Gln Ala Gln Ala Arg Arg Gly Glu Ile Asn Gly Arg
465          470          475          480
Gln Arg Ser Trp Phe Cys Gly Ala Tyr Trp Tyr Asn Gly Phe His Glu
485          490          495
Asp Gly Val Arg Ser Ala Leu Asp Val Val Asn Ala Ile Ala Ala Gly
500          505          510
Glu Gly Asn
515

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<210> 10189

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 10189

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Thr Leu Met Thr Asp Pro Val Phe Ala Leu Glu Pro Asp Ile Pro Arg
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Asn Val Arg Val Ala Arg Trp Leu Leu Phe Arg Leu Leu Asn Gly Leu
20          25          30
Arg Gly Gly Ser Leu Thr Leu Arg Glu Gly Ala Gln Thr Phe Gln Phe
35          40          45
Gly Asp Ala Ser Ala Ala Leu His Ala Glu Val Gln Val Leu Ala Pro
50          55          60
Gly Val Tyr Trp Arg Ile Leu Thr Gly Gly Ser Leu Ala Ala Ala Gln
65          70          75          80
Ala Trp Met Asp Gly Asp Trp Glu Thr Pro His Leu Thr Pro Leu Leu
85          90          95
Glu Leu Ile Ala Arg Asn Ser Gln Ile Leu Gly Gln Leu Glu Lys Gly
100          105          110
Phe Arg Leu Leu Gly Lys Pro Val Glu Arg Leu Arg His Trp Met Arg
115          120          125
Arg Asn Ser Arg Ala Gln Ala Arg Glu Asn Ile Ala Ala His Tyr Asp
130          135          140
Leu Gly Asn Ala Phe Tyr Ala His Phe Leu Asp Glu Asp Leu Leu Tyr
145          150          155          160
Ser Ser Ala Leu Phe Asn Gly Asp Glu Gln Asp Leu Asn Ala Ala Gln
165          170          175
Gln Ala Lys Met Ala Arg Leu Cys Asp Gln Leu Ala Leu Thr Ala Asn
180          185          190
Asp His Leu Leu Glu Ile Gly Thr Gly Trp Gly Ala Met Ala Glu Tyr
195          200          205
Ala Ala Arg His Tyr Gly Cys Arg Val Thr Thr Thr Thr Leu Ser Gln

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210	215	220
Glu Gln Tyr His Trp	Ala Thr Ala Arg Ile Val	Arg Ala Gly Leu Gln
225	230	235
Asp Arg Val Glu Val	Leu Leu Cys Asp Tyr Arg	Asp Leu Thr Gly Val
	245	250
Tyr Asp Lys Leu Val	Ser Val Glu Met Ile Glu	Ala Val Gly Gln Arg
	260	265
Tyr Leu Pro Thr Phe	Phe Arg Thr Cys Gln Ala	Arg Leu Arg Pro Gly
	275	280
Gly Arg Met Ala Ile	Gln Ala Ile Thr Ile Gln	Asp Gln Arg Tyr Arg
	290	295
Asp Tyr Ser Lys Ser	Val Asp Phe Ile Gln Arg	Tyr Ile Phe Pro Gly
305	310	315
Gly Phe Leu Pro Ser	Ile Thr Ala Met Asn Glu	Leu Met Thr Arg His
	325	330
Thr Asp Phe Val Val	Arg Asn Leu Phe Asp	Met Gly Pro Asp Tyr Ala
	340	345
Arg Thr Leu Ala His	Trp Arg Gln Arg Phe	Val His Ala Trp Gln Glu
	355	360
Ile Glu Lys Leu Gly	Phe Asp Asp Arg Phe	Arg Arg Met Trp Leu Tyr
	370	375
Tyr Leu Gly Tyr Cys	Glu Ala Gly Phe Asn	Ala Arg Thr Ile Ser Val
385	390	395
Val Gln Leu Thr Ala	Glu Arg Val	
	405	

<210> 10190

<211> 1314

<212> PRT

<213> Enterobacter cloacae

<400> 10190

Lys Glu Ile Leu Ser Gly	Ser Ala Leu Pro Val	Asn Ala Met Thr Glu
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His Gln Lys Leu Thr	Phe Pro Met Leu Met	Gln Lys Leu Asp Ser Leu
	20	25
Met Leu Arg Asp Lys	Gln Arg Phe Ala Arg	Arg Leu His Gly Val Lys
	35	40
Lys Val Lys Asn Pro	Asp Ala Gln Gln Ala	Ile Tyr Gln Glu Met Ala
	50	55
Lys Glu Ile Glu Gln	Ala Ala Gly Lys Val	Val Leu Arg Glu Ala Ala
	65	70
Arg Pro Glu Ile Thr	Tyr Pro Glu Asn Leu	Pro Val Ser Gln Lys Lys
	85	90
Gln Asp Ile Leu Glu	Ala Val Arg Asp His	Gln Val Val Ile Val Ala
	100	105
Gly Glu Thr Gly Ser	Gly Lys Thr Thr Gln	Leu Pro Lys Ile Cys Met
	115	120
Glu Leu Gly Arg Gly	Leu Lys Gly Leu Ile	Gly His Thr Gln Pro Arg
	130	135
Arg Leu Ala Ala Arg	Thr Val Ala Asn Arg	Ile Ala Glu Glu Leu Gln
	145	150
Thr Glu Pro Gly Gly	Cys Ile Gly Tyr Lys	Val Arg Phe Ser Asp His
	165	170
Val Ser Asp Asn Thr	Met Val Lys Leu Met	Thr Asp Gly Ile Leu Leu
	180	185
Ala Glu Ile Gln Gln	Asp Arg Leu Leu Met	Gln Tyr Asp Thr Ile Ile
	195	200
Ile Asp Glu Ala His	Glu Arg Ser Leu Asn	Ile Asp Phe Leu Leu Gly
	210	215
Tyr Leu Lys Glu Leu	Leu Leu Pro Arg	Arg Pro Asp Leu Lys Ile Ile
	220	

225					230					235				240
Thr	Ser	Ala	Thr	Ile	Asp	Pro	Glu	Arg	Phe	Ser	Lys	His	Phe	Asn
				245					250					255
Ala	Pro	Ile	Ile	Glu	Val	Ser	Gly	Arg	Thr	Tyr	Pro	Val	Glu	Val
			260					265					270	
Tyr	Arg	Pro	Ile	Val	Glu	Glu	Ala	Asp	Asp	Thr	Glu	Arg	Asp	Gln
		275					280					285		Leu
Gln	Ala	Ile	Phe	Asp	Ala	Val	Asp	Glu	Leu	Gly	Asn	Glu	Ser	Ser
		290				295					300			Gly
Asp	Ile	Leu	Ile	Phe	Met	Ser	Gly	Glu	Arg	Glu	Ile	Arg	Asp	Thr
305					310					315				Ala
Asp	Ala	Leu	Ser	Lys	Arg	Asp	Leu	Arg	Tyr	Thr	Glu	Ile	Leu	Pro
				325					330					Leu
Tyr	Ala	Arg	Leu	Ser	Asn	Ser	Glu	Gln	Asn	Arg	Val	Phe	Gln	Pro
			340					345					350	His
Ser	Gly	Arg	Arg	Ile	Val	Leu	Ala	Thr	Asn	Val	Ala	Glu	Thr	Ser
		355					360					365		Leu
Thr	Val	Pro	Gly	Ile	Lys	Tyr	Val	Ile	Asp	Pro	Gly	Thr	Ala	Arg
		370				375					380			Ile
Ser	Arg	Tyr	Ser	Tyr	Arg	Thr	Lys	Val	Gln	Arg	Leu	Pro	Ile	Glu
385					390					395				Pro
Val	Ser	Gln	Ala	Ser	Ala	Asn	Gln	Arg	Lys	Gly	Arg	Cys	Gly	Arg
				405					410					Val
Ser	Glu	Gly	Ile	Cys	Ile	Arg	Leu	Tyr	Ser	Glu	Asp	Asp	Phe	Leu
			420					425					430	Ser
Arg	Pro	Glu	Phe	Thr	Asp	Pro	Glu	Ile	Leu	Arg	Thr	Asn	Leu	Ala
		435					440					445		Ser
Val	Ile	Leu	Gln	Met	Thr	Ala	Leu	Gly	Leu	Gly	Asp	Ile	Ala	Ala
		450				455				460				Phe
Pro	Phe	Val	Glu	Ala	Pro	Asp	Lys	Arg	Asn	Ile	Gln	Asp	Gly	Val
465					470					475				Arg
Leu	Leu	Glu	Glu	Leu	Gly	Ala	Ile	Thr	Thr	Asp	Glu	Gln	Ala	Thr
				485					490					Ala
Tyr	Lys	Leu	Thr	Pro	Leu	Gly	Arg	Gln	Leu	Ser	Gln	Leu	Pro	Val
			500					505					510	Asp
Pro	Arg	Leu	Ala	Arg	Met	Val	Leu	Glu	Ala	Gln	Lys	His	Gly	Cys
		515					520					525		Val
Arg	Glu	Ala	Met	Ile	Ile	Thr	Ser	Ala	Leu	Ser	Ile	Gln	Asp	Pro
		530				535					540			Arg
Glu	Arg	Pro	Met	Asp	Lys	Gln	Gln	Ala	Ser	Asp	Glu	Lys	His	Arg
545					550					555				Arg
Phe	His	Asp	Lys	Glu	Ser	Asp	Phe	Leu	Ala	Phe	Val	Asn	Leu	Trp
				565					570					Asn
Tyr	Leu	Gly	Glu	Gln	Gln	Lys	Thr	Leu	Ser	Ser	Asn	Gln	Phe	Arg
			580					585					590	Arg
Gln	Cys	Arg	Val	Asp	Phe	Leu	Asn	Tyr	Leu	Arg	Val	Arg	Glu	Trp
		595					600					605		Gln
Asp	Ile	Tyr	Thr	Gln	Leu	Arg	Gln	Val	Val	Lys	Glu	Leu	Gly	Ile
						615					620			Pro
Val	Asn	Ser	Glu	Pro	Ala	Glu	Tyr	Arg	Glu	Ile	His	Ile	Ala	Leu
625					630					635				Leu
Thr	Gly	Leu	Leu	Ser	His	Ile	Gly	Met	Lys	Asp	Ala	Asp	Lys	Gln
				645					650					Glu
Phe	Thr	Gly	Ala	Arg	Asn	Ala	Arg	Phe	Ser	Ile	Phe	Pro	Gly	Ser
			660					665					670	Gly
Leu	Phe	Lys	Lys	Pro	Pro	Lys	Trp	Thr	Met	Val	Ala	Glu	Leu	Val
			675				680					685		Glu
Thr	Ser	Arg	Leu	Trp	Gly	Arg	Ile	Ala	Ala	Arg	Ile	Asp	Pro	Glu
			690			695					700			Trp
Val	Glu	Pro	Val	Ala	Gln	His	Leu	Leu	Lys	Arg	Ser	Tyr	Ser	Glu
705					710					715				Pro
														720

His	Trp	Glu	Arg	Gly	Gln	Gly	Ala	Val	Met	Ala	Thr	Glu	Lys	Val	Thr
				725					730					735	
Val	Tyr	Gly	Leu	Pro	Val	Val	Ala	Ala	Arg	Lys	Val	Asn	Tyr	Ser	Gln
			740					745					750		
Ile	Asp	Pro	Ala	Leu	Ser	Arg	Glu	Leu	Phe	Ile	Arg	His	Ala	Leu	Val
		755					760					765			
Glu	Gly	Asp	Trp	Gln	Thr	Arg	His	Ala	Phe	Phe	Arg	Glu	Asn	Leu	Lys
	770					775					780				
Leu	Arg	Ala	Glu	Val	Glu	Glu	Leu	Glu	His	Lys	Ser	Arg	Arg	Arg	Asp
785					790					795					800
Ile	Leu	Val	Asp	Asp	Glu	Thr	Leu	Phe	Glu	Phe	Tyr	Asp	Gln	Arg	Ile
			805						810						815
Ser	His	Asp	Val	Ile	Ser	Ala	Arg	His	Phe	Asp	Ser	Trp	Trp	Lys	Lys
			820					825					830		
Ala	Ser	Lys	Glu	Thr	Pro	Asp	Leu	Leu	Asn	Phe	Glu	Lys	Ser	Met	Leu
		835					840					845			
Ile	Lys	Glu	Gly	Ala	Glu	Ser	Val	Ser	Lys	Leu	Asp	Tyr	Pro	Asn	Phe
	850					855					860				
Trp	His	Gln	Gly	Asn	Leu	Lys	Leu	Arg	Leu	Thr	Tyr	Gln	Phe	Glu	Pro
865					870					875					880
Gly	Ala	Asp	Ala	Asp	Gly	Val	Thr	Val	His	Ile	Pro	Leu	Pro	Leu	Leu
				885					890						895
Asn	Gln	Val	Asp	Glu	Ser	Gly	Phe	Glu	Trp	Gln	Ile	Pro	Gly	Leu	Arg
			900					905					910		
Arg	Glu	Leu	Val	Ile	Ala	Leu	Ile	Lys	Ser	Leu	Pro	Lys	Pro	Val	Arg
		915					920					925			
Arg	Asn	Phe	Val	Pro	Ala	Pro	Asn	Tyr	Ala	Glu	Ala	Phe	Leu	Gly	Arg
	930					935					940				
Val	Thr	Ser	Leu	Glu	Leu	Pro	Leu	Leu	Asp	Ala	Leu	Glu	Arg	Glu	Phe
945					950					955					960
Arg	Arg	Met	Thr	Gly	Thr	Thr	Ile	Asp	Arg	Asp	Asp	Trp	Asn	Trp	Asp
				965				970						975	
Gln	Val	Pro	Asp	His	Leu	Lys	Ile	Thr	Phe	Arg	Val	Val	Asp	Asp	Lys
			980					985					990		
Asn	Lys	Lys	Leu	Met	Glu	Gly	Arg	Ser	Leu	Ser	Glu	Leu	Lys	Asp	Ala
		995					1000					1005			
Leu	Lys	Gly	Lys	Val	Gln	Glu	Thr	Leu	Ser	Ala	Val	Ala	Asp	Asp	Gly
	1010					1015					1020				
Ile	Glu	Gln	Ser	Gly	Leu	His	Ile	Trp	Ser	Phe	Gly	Gln	Leu	Pro	Glu
1025					1030					1035					1040
Ser	Tyr	Glu	Gln	Lys	Arg	Gly	Asn	Tyr	Lys	Val	Lys	Ala	Trp	Pro	Ala
				1045					1050					1055	
Leu	Val	Asp	Glu	Arg	Asp	Ser	Val	Ala	Ile	Lys	Leu	Phe	Asp	Asn	Pro
			1060					1065					1070		
Gln	Glu	Gln	Gln	Gln	Met	Met	Trp	Arg	Gly	Leu	Arg	Arg	Leu	Leu	Leu
		1075					1080					1085			
Leu	Asn	Ile	Pro	Ser	Pro	Ile	Lys	Tyr	Leu	His	Glu	Lys	Leu	Pro	Asn
	1090					1095					1100				
Lys	Ala	Lys	Leu	Gly	Leu	Tyr	Phe	Asn	Pro	Tyr	Gly	Lys	Val	Leu	Asp
1105					1110					1115					1120
Leu	Ile	Asp	Asp	Cys	Ile	Ser	Cys	Gly	Val	Asp	Lys	Leu	Ile	His	Glu
			1125					1130						1135	
Ala	Gly	Gly	Pro	Val	Trp	Thr	Glu	Glu	Gly	Phe	Ala	Gln	Leu	His	Glu
			1140					1145					1150		
Lys	Val	Arg	Ala	Glu	Leu	Asn	Asp	Thr	Val	Val	Glu	Ile	Ala	Lys	Gln
		1155					1160					1165			
Val	Glu	Gln	Ile	Leu	Thr	Ala	Val	Phe	Asn	Ile	Asn	Lys	Arg	Leu	Lys
	1170					1175						1180			
Gly	Arg	Val	Asp	Met	Thr	Met	Ala	Leu	Gly	Leu	Ser	Asp	Val	Lys	Ala
1185					1190					1195					1200
Gln	Met	Ala	Gly	Leu	Val	Tyr	Arg	Gly	Phe	Val	Thr	Gly	Asn	Gly	Phe

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<210> 10191
<211> 354
<212> PRT
<213> Enterobacter cloacae
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<400>	10191															
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Ser	Phe	Gly	His	Trp	Thr	Pro	Ser	Pro	Gln	Ser	Gly	Thr	Arg	Thr	Ala	
			20					25					30			
Ala	Asp	Thr	Leu	Leu	Gln	Ser	Ile	Asp	Leu	Val	Val	Ala	Ala	Glu	Glu	
			35					40					45			
Leu	Gly	Ala	Asp	Gly	Ala	Tyr	Phe	Arg	Val	His	His	Phe	Ala	Arg	Gln	
						55						60				
Leu	Ser	Ser	Pro	Phe	Pro	Leu	Leu	Ala	Ala	Ile	Gly	Ala	Lys	Thr	Lys	
65					70					75					80	
Arg	Ile	Glu	Ile	Gly	Thr	Gly	Val	Ile	Asp	Met	Arg	Tyr	Glu	Asn	Pro	
				85					90					95		
Leu	Tyr	Met	Ala	Glu	Asp	Ala	Gly	Ala	Ala	Asp	Leu	Ile	Ser	Gly	Gly	
				100				105						110		
Arg	Leu	Gln	Leu	Gly	Ile	Ser	Arg	Gly	Ser	Pro	Glu	Gln	Val	Ile	Asp	
							120						125			
Gly	Trp	Arg	Tyr	Phe	Gly	Tyr	Val	Pro	Gln	Glu	Gly	Glu	Thr	Glu	Ser	
						135						140				
Asp	Met	Ala	Arg	Arg	His	Thr	Glu	Val	Leu	Leu	Asp	Val	Leu	Arg	Gly	
145					150					155					160	
Glu	Gly	Phe	Ala	Lys	Pro	Asn	Pro	Gln	Pro	Met	Phe	Pro	Asn	Pro	Pro	
				165					170					175'		
Gly	Leu	Leu	Arg	Leu	Glu	Pro	His	Ser	Glu	Gly	Leu	Arg	Asp	Arg	Ile	
				180				185					190			
Trp	Trp	Gly	Ala	Gly	Ser	Asn	Ala	Thr	Ala	Val	Trp	Ala	Ala	Lys	Leu	
							200					205				
Gly	Met	Asn	Leu	Gln	Ser	Ser	Thr	Leu	Lys	Asp	Asp	Glu	Thr	Gly	Glu	
						215					220					
Pro	Phe	His	Ile	Gln	Gln	Ala	Lys	Gln	Ile	Arg	Ala	Tyr	Arg	Gln	Ala	
225					230					235					240	
Trp	Ala	Glu	Ala	Gly	His	Thr	Arg	Gln	Pro	Arg	Val	Ser	Val	Ser	Arg	
				245					250					255		
Ser	Ile	Phe	Ala	Leu	Met	Asp	Glu	Arg	Asp	Arg	Met	Tyr	Phe	Gly	Ser	
			260					265					270			
Ser	Arg	Asn	Glu	Ser	Asp	Ser	Val	Gly	Tyr	Leu	Asp	Glu	Lys	Thr	Arg	
						280						285				
Ala	Ile	Phe	Gly	Arg	Ser	Tyr	Ala	Ala	Glu	Pro	Asp	Lys	Leu	Ile	Glu	
						295					300					
Gln	Leu	Lys	Lys	Asp	Glu	Ala	Ile	Ala	Glu	Ala	Asp	Thr	Leu	Leu	Leu	

305					310					315					320
Thr	Val	Pro	Asn	Gln	Leu	Gly	Val	Glu	Tyr	Asn	Ala	His	Val	Ile	Glu
				325					330					335	
Ser	Ile	Leu	Lys	His	Val	Ala	Pro	Glu	Met	Gly	Trp	Arg	Asp	Arg	Asn
			340					345					350		
Ala															

<210> 10192

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10192

Arg	Gln	Pro	Leu	Lys	Cys	Phe	Thr	Ile	Ala	Leu	Ser	Leu	Phe	Arg	Ser
1				5					10					15	
Ser	Lys	Ile	Arg	Glu	Tyr	Glu	Val	Val	Ala	Asp	Ser	Gln	Pro	Gly	His
			20					25					30		
Ile	Asp	Gln	Ile	Lys	Gln	Thr	Asn	Ala	Gly	Ala	Val	Tyr	Arg	Leu	Ile
		35				40						45			
Asp	Gln	Leu	Gly	Pro	Val	Ser	Arg	Ile	Asp	Leu	Ser	Arg	Leu	Ala	Gln
	50					55					60				
Leu	Ala	Pro	Ala	Ser	Ile	Thr	Lys	Ile	Val	Arg	Glu	Met	Leu	Glu	Ala
	65				70					75					80
His	Leu	Val	Gln	Glu	Thr	Glu	Ile	Gln	Glu	Pro	Gly	Ser	Arg	Gly	Arg
			85						90					95	
Pro	Ala	Val	Gly	Leu	Val	Val	Glu	Thr	Glu	Ala	Trp	His	Tyr	Leu	Ser
			100					105					110		
Leu	Arg	Ile	Ser	Arg	Gly	Glu	Ile	Phe	Leu	Ala	Leu	Arg	Asp	Leu	Ser
		115					120						125		
Ser	Lys	Leu	Val	Val	Glu	Asp	Arg	Leu	Glu	Leu	Pro	Leu	Asn	Ala	Glu
		130				135						140			
Gln	Pro	Leu	Leu	Asp	Ala	Ile	Leu	Thr	His	Ile	Asp	Gln	Phe	Phe	Ile
				150						155					160
Arg	His	Gln	Gln	Arg	Leu	Glu	Arg	Leu	Thr	Ala	Ile	Ala	Ile	Thr	Leu
				165					170					175	
Pro	Gly	Ile	Ile	Asp	Thr	Glu	Asn	Gly	Ile	Val	His	Arg	Met	Pro	Phe
			180					185					190		
Tyr	Glu	Asn	Val	Lys	Glu	Met	Pro	Leu	Gly	Asp	Val	Leu	Glu	Asn	His
		195					200					205			
Thr	Gly	Val	Pro	Val	Tyr	Ile	Gln	His	Asp	Ile	Ser	Ala	Trp	Thr	Met
		210				215						220			
Ala	Glu	Ala	Leu	Phe	Gly	Ala	Ser	Arg	Gly	Ala	Arg	Asp	Val	Ile	Gln
					230					235					240
Val	Val	Ile	Asp	His	Asn	Val	Gly	Ala	Gly	Val	Ile	Thr	Asp	Gly	Arg
				245					250					255	
Leu	Leu	His	Ala	Gly	Ser	Ser	Ser	Leu	Val	Glu	Ile	Gly	His	Thr	Gln
			260					265					270		
Val	Asp	Pro	Tyr	Gly	Lys	Arg	Cys	Tyr	Cys	Gly	Asn	His	Gly	Cys	Leu
		275					280					285			
Glu	Thr	Ile	Ala	Ser	Val	Glu	Ser	Val	Leu	Glu	Leu	Ala	Gln	Val	Arg
						295					300				
Leu	Thr	Gln	Ser	Met	Ser	Ser	Thr	Leu	His	Gly	Gln	Pro	Leu	Ser	Val
					310					315					320
Glu	Ala	Leu	Cys	Ala	Ala	Ala	Arg	Gln	Gly	Asp	Leu	Leu	Ala	Lys	Asp
				325					330					335	
Ile	Ile	Thr	Gly	Val	Gly	Asn	Asn	Val	Gly	Arg	Ile	Leu	Ala	Ile	Met
			340					345					350		
Val	Asn	Leu	Phe	Asn	Pro	Gln	Lys	Ile	Leu	Ile	Gly	Ser	Pro	Leu	Ser
		355					360					365			
Gln	Ala	Ala	Asp	Ile	Leu	Phe	Pro	Ala	Ile	Ser	Ala	Cys	Ile	Asn	Gln

370		375		380
Gln Ala Leu Pro Ala Tyr Ser Lys Asn Ile Val Glu Ser Thr Gln				
385		390		395
Phe Ser Asn Gln Gly Thr Met Ala Gly Ala Ala Leu Val Lys Asp Ala				
	405		410	415
Met Tyr Asn Gly Ser Leu Leu Ile Arg Leu Leu Gln Gly				
	420		425	430

<210> 10193

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 10193

Val Met Leu Lys Arg Phe Phe Ile Thr Gly Thr Asp Thr Ser Val Gly	
1	5
Lys Thr Val Val Ser Arg Ala Leu Leu Gln Ala Leu Ala Ala Ser Gly	
	20
Lys Arg Val Ala Gly Tyr Lys Pro Val Ala Lys Gly Ser Lys Glu Thr	
	35
Pro Glu Gly Leu Arg Asn Lys Asp Ala Leu Val Leu Gln Ser Val Ser	
	50
Ser Leu Glu Leu Pro Tyr Asp Ala Val Asn Pro Ile Ala Leu Ser Glu	
65	70
Glu Glu Ser Ser Val Ala His Ser Gly Leu Ile Asn Tyr Ser Leu Leu	
	85
Ser Asp Gly Leu Ala Asn Leu Ser Glu Lys Val Asp His Val Val Val	
	100
Glu Gly Thr Gly Gly Trp Arg Ser Leu Met Asn Asp Leu Arg Pro Leu	
	115
Ser Glu Trp Val Val Gln Glu Gln Leu Pro Val Ile Met Val Val Gly	
	130
Ile Gln Glu Gly Cys Ile Asn His Ala Leu Leu Thr Ala Gln Ala Ile	
145	150
Ala Asn Asp Gly Leu Pro Leu Ile Gly Trp Val Ala Asn Arg Val Asn	
	165
Pro Gly Leu Ala His Tyr Ala Glu Ile Ile Asp Val Leu Ser Lys Lys	
	180
Leu Pro Gly Pro Leu Val Gly Glu Leu Pro Tyr Leu Pro Arg Ala Glu	
	195
Gln Arg Glu Leu Ala His Tyr Ile Asp Leu Ser Ala Phe Gly Gly Met	
	210
Leu Ala Val Gly Arg Val Val Ala	
225	230

<210> 10194

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 10194

Ile Asn Pro His Glu Thr Arg Lys Met Phe Lys Thr Thr Leu Leu Phe	
1	5
Phe Ala Thr Ala Leu Cys Glu Ile Ile Gly Cys Phe Leu Pro Trp Leu	
	20
Trp Leu Lys Arg Gly Ala Ser Ala Leu Leu Leu Ile Pro Ala Gly Val	
	35
Ser Leu Ala Leu Phe Val Trp Leu Leu Thr Leu His Pro Ala Ala Ser	
	50
Gly Arg Val Tyr Ala Ala Tyr Gly Gly Val Tyr Val Cys Thr Ala Leu	
65	70
	75
	80

Leu Trp Leu Arg Val Val Asp Gly Val Arg Leu Ser Leu Tyr Asp Trp
 85 90 95
 Ala Gly Ala Leu Ile Ala Leu Cys Gly Met Leu Ile Ile Val Ala Gly
 100 105 110
 Trp Gly Arg Ala
 115

<210> 10195

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 10195

Ile Ser Cys Ile Thr Thr Ser Asp Val Arg Lys Trp Ile Met Lys Ile
 1 5 10 15
 Val Gly Ala Glu Val Phe Val Thr Cys Pro Gly Arg Asn Phe Val Thr
 20 25 30
 Leu Lys Ile Thr Thr Asp Glu Gly Ile Val Gly Leu Gly Asp Ala Thr
 35 40 45
 Leu Asn Gly Arg Glu Leu Ser Val Ala Ser Tyr Leu Lys Asp His Leu
 50 55 60
 Cys Pro Gln Leu Ile Gly Arg Asp Ala His Arg Ile Glu Asp Ile Trp
 65 70 75 80
 Gln Phe Phe Tyr Lys Gly Ala Tyr Trp Arg Arg Gly Pro Val Thr Met
 85 90 95
 Ser Ala Ile Ser Ala Val Asp Met Ala Leu Trp Asp Ile Lys Ala Lys
 100 105 110
 Ala Ala Asn Met Pro Leu Tyr Gln Leu Leu Gly Gly Ala Ser Arg Glu
 115 120 125
 Gly Val Met Val Tyr Cys His Thr Thr Gly His Thr Ile Asp Asp Val
 130 135 140
 Leu Glu Asp Tyr Ala Arg His Lys Glu Met Gly Phe Lys Ala Ile Arg
 145 150 155 160
 Val Gln Cys Gly Val Pro Gly Met Lys Thr Thr Tyr Gly Met Ala Lys
 165 170 175
 Gly Lys Gly Leu Ala Tyr Glu Pro Ala Thr Lys Gly Ala Trp Pro Glu
 180 185 190
 Glu Gln Leu Trp Ser Thr Glu Lys Tyr Leu Asp Phe Thr Pro Lys Leu
 195 200 205
 Phe Asp Ala Val Arg Ser Gln Phe Gly Phe Ser Glu His Leu Leu His
 210 215 220
 Asp Met His His Arg Leu Thr Pro Ile Glu Ala Ala Arg Phe Gly Lys
 225 230 235 240
 Ser Ile Glu Asp Tyr Arg Leu Phe Trp Met Glu Asp Pro Thr Pro Ala
 245 250 255
 Glu Asn Gln Glu Cys Phe Arg Leu Ile Arg Gln His Thr Val Thr Pro
 260 265 270
 Ile Ala Val Gly Glu Val Phe Asn Ser Ile Trp Asp Cys Lys Gln Leu
 275 280 285
 Ile Glu Glu Gln Leu Ile Asp Tyr Ile Arg Ala Thr Ile Thr His Ala
 290 295 300
 Gly Gly Ile Thr Gly Met Arg Arg Ile Ala Asp Phe Ala Ser Leu Tyr
 305 310 315 320
 Gln Val Arg Thr Gly Ser His Gly Pro Ser Asp Leu Ser Pro Ile Cys
 325 330 335
 His Ala Ala Ala Leu His Phe Asp Leu Trp Val Pro Asn Phe Gly Val
 340 345 350
 His Glu Tyr Met Gly Tyr Ser Glu His Met Leu Glu Val Phe Pro His
 355 360 365
 Ser Trp Arg Phe Asp Asn Gly Tyr Met His Pro Gly Asp Lys Pro Gly
 370 375 380

Leu Gly Ile Glu Phe Asp Glu Lys Leu Ala Ala Lys Tyr Pro Tyr Asp
 385 390 395 400
 Pro Ala Tyr Leu Pro Val Ala Arg Leu Glu Asp Gly Thr Leu Trp Asn
 405 410 415
 Trp

<210> 10196

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 10196

Glu Pro Ala Lys Thr Gly Ser Lys Trp Tyr Ala Ser Tyr Leu Ser Glu
 1 5 10 15
 Ile Ala Ile Met Thr Gln Ala Gln Pro Gln Arg Ser Thr Ser Asp Leu
 20 25 30
 Val Lys Ala Ala Val Ser Gly Trp Leu Gly Thr Ala Leu Glu Phe Met
 35 40 45
 Asp Phe Gln Leu Tyr Ser Leu Gly Ala Ala Leu Val Phe His Glu Ile
 50 55 60
 Phe Phe Pro Glu Gln Ser Ala Ala Met Ala Leu Ile Leu Ala Met Gly
 65 70 75 80
 Thr Tyr Gly Ala Gly Tyr Ile Ala Arg Ile Val Gly Ala Phe Ile Phe
 85 90 95
 Gly Arg Met Gly Asp Arg Ile Gly Arg Lys Lys Val Leu Phe Ile Thr
 100 105 110
 Ile Thr Met Met Gly Ile Cys Thr Thr Leu Ile Gly Val Leu Pro Thr
 115 120 125
 Tyr Ala Gln Ile Gly Ile Phe Ala Pro Val Leu Leu Val Thr Leu Arg
 130 135 140
 Ile Ile Gln Gly Leu Gly Ala Gly Ala Glu Ile Ser Gly Ala Gly Thr
 145 150 155 160
 Met Leu Ala Glu Tyr Ala Pro Lys Gly Lys Arg Gly Ile Ile Ser Ser
 165 170 175
 Leu Val Ala Met Gly Thr Asn Cys Gly Thr Leu Ser Ala Thr Ala Ile
 180 185 190
 Trp Ala Val Met Phe Phe Ala Leu Asp Arg Glu Glu Leu Ile Ala Trp
 195 200 205
 Gly Trp Arg Val Pro Phe Leu Ala Ser Val Val Val Met Ile Phe Ala
 210 215 220
 Ile Trp Leu Arg Met Asn Leu Lys Glu Ser Pro Val Phe Glu Lys Val
 225 230 235 240
 Asn Asp Ala Glu Thr Val Ala Pro Ala Ala Gln Asp Thr Ser Leu
 245 250 255
 Gly Ala Met Phe Lys Ser Lys Ser Phe Trp Leu Ala Thr Gly Leu Arg
 260 265 270
 Phe Gly Gln Ala Gly Asn Ser Gly Leu Ile Gln Thr Phe Leu Ala Gly
 275 280 285
 Tyr Leu Val Gln Thr Leu Leu Phe Asp Lys Ala Ile Pro Thr Asp Ala
 290 295 300
 Leu Met Ile Ser Ser Ile Leu Gly Phe Leu Thr Ile Pro Leu Leu Gly
 305 310 315 320
 Trp Leu Ser Asp Lys Val Gly Arg Arg Leu Pro Tyr Ile Leu Leu Asn
 325 330 335
 Ile Ser Ala Ile Ile Leu Ala Tyr Pro Met Leu Ser Ile Ile Val Asp
 340 345 350
 Lys Ser Tyr Ala Pro Gly Val Ile Met Leu Ser Ile Ile Val Ile His
 355 360 365
 Asn Phe Ala Val Leu Gly Leu Phe Ala Leu Glu Asn Ile Thr Met Ala
 370 375 380

Glu Met Phe Gly Ser Arg Asn Arg Phe Thr Arg Met Ala Ile Ser Lys
 385 390 395 400
 Glu Ala Gly Gly Leu Val Ala Val Gly Phe Gly Pro Val Leu Ala Gly
 405 410 415
 Ile Phe Cys Asn Met Thr Gly Ser Trp Trp Pro Ile Val Ala Met Leu
 420 425 430
 Val Ala Tyr Ser Leu Ile Gly Leu Val Ser Ala Leu Leu Met Pro Glu
 435 440 445
 Val Arg Asp Arg Asp Leu Ser Glu Ala Glu Asp Ala Ala Glu Ala Pro
 450 455 460
 His Lys Glu Ala Val Ala Tyr Gly Ala Leu Ser Ser Arg Arg
 465 470 475

<210> 10197

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 10197

Arg Val Ser Ile Met Glu Asn Gln Leu Leu Gln Ala Lys Ala Thr Arg
 1 5 10 15
 Pro Gln Tyr Asp Arg Asp Ser Leu Lys Ala Arg Ile Val His Leu Gly
 20 25 30
 Phe Gly Ala Phe His Arg Ala His Gln Ala Val Tyr Thr Asp Ile Leu
 35 40 45
 Ala Ala Glu Gln Gly Ser Asp Trp Gly Tyr Cys Glu Val Asn Leu Ile
 50 55 60
 Gly Gly Glu Gln Gln Ile Ala Asp Leu Lys Ala Gln Asp Asn Leu Tyr
 65 70 75 80
 Thr Val Ala Glu Met Ser Ala Asp Ala Trp Thr Ala Arg Val Val Gly
 85 90 95
 Val Val Lys Asn Ala Leu His Ala Gln Val Asp Gly Leu Glu Thr Val
 100 105 110
 Leu Ala Ala Leu Cys Glu Pro Gln Val Ala Ile Val Ser Leu Thr Ile
 115 120 125
 Thr Glu Lys Gly Tyr Cys His Ser Pro Ala Thr Gly Gln Leu Met Phe
 130 135 140
 Asp His Pro Leu Ile Val Ala Asp Leu Gln Asn Pro His Gln Pro Lys
 145 150 155 160
 Ser Ala Pro Gly Val Val Val Glu Ala Leu Ala Arg Arg Lys Ala Ala
 165 170 175
 Gly Leu Pro Ala Phe Ser Val Met Ser Cys Asp Asn Met Pro Glu Asn
 180 185 190
 Gly His Val Met Arg Asn Val Thr Cys Ala Tyr Ala Arg Ala Val Asp
 195 200 205
 Gly Glu Leu Ala Asp Trp Ile Glu Ala Asn Val Thr Phe Pro Ser Thr
 210 215 220
 Met Val Asp Arg Ile Val Pro Ala Val Thr Ala Asp Thr Leu Asp Lys
 225 230 235 240
 Ile Glu Gln Leu Thr Gly Val Arg Asp Pro Ala Gly Val Ala Cys Glu
 245 250 255
 Pro Phe Arg Gln Trp Val Val Glu Asp Asn Phe Val Ala Gly Arg Pro
 260 265 270
 Lys Trp Glu Lys Ala Gly Ala Glu Leu Val Ser Asp Val Ile Pro Phe
 275 280 285
 Glu Glu Met Lys Leu Arg Met Leu Asn Gly Ser His Ser Phe Leu Ala
 290 295 300
 Tyr Leu Gly Tyr Leu Ala Gly Tyr Gln His Ile Asn Asp Cys Met Glu
 305 310 315 320
 Asp Glu His Tyr Arg Ala Ala Ala His Ala Leu Met Leu Lys Glu Gln
 325 330 335

Ala Pro Thr Leu Lys Val Lys Gly Val Asp Leu Ala His Tyr Ala Asp
 340 345 350
 Leu Leu Ile Ala Arg Tyr Ser Asn Pro Thr Leu Arg His Arg Thr Trp
 355 360 365
 Gln Ile Ala Met Asp Gly Ser Gln Lys Leu Pro Gln Arg Met Leu Asp
 370 375 380
 Ser Val Arg Trp His Leu Val His Gln Lys Pro Phe Pro Leu Leu Ala
 385 390 395 400
 Leu Gly Val Ala Gly Trp Met Arg Tyr Val Gly Gly Val Asp Glu Gln
 405 410 415
 Gly Asn Pro Ile Glu Val Ser Asp Pro Gln Leu Ala Val Ile Gln Ala
 420 425 430
 Ala Val Asn Gly Ser Ala Glu Gly Glu Ser Arg Val Asn Ala Leu Leu
 435 440 445
 Gly Ile Glu Ala Ile Phe Gly Asn Glu Leu Pro Lys Asp Ala Val Phe
 450 455 460
 Val Ala Ser Val Met Gln Ala Tyr Gln Thr Leu Leu Gln Lys Gly Ala
 465 470 475 480
 Lys Ala Thr Val Ala Glu Tyr Ala Thr Arg Leu
 485 490

<210> 10198 .

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 10198

Ala Ala Ile Pro Pro Val Thr Thr Ile Ala Ser Glu Ala Glu Glu Pro
 1 5 10 15
 Pro Val His Asn Asp Lys His Tyr Pro Phe Ile Lys Val Ser Met Thr
 20 25 30
 Ala Leu Ala Leu Leu Val Ala Pro Leu Ala Leu Gln Ala Gln Asp Lys
 35 40 45
 Ala Thr Glu Ala Ser Gln Gly Thr Gln Glu Ser Leu Asn Ile Asp Ala
 50 55 60
 Ala Asp Gln Gln Ala Pro Gly Thr Thr Lys Thr Thr Asp Asp Ala Ser
 65 70 75 80
 Thr Gly Ser Gly Asp Gly Lys Asn Val Ala Ser Ala Ser Gln Pro Ala
 85 90 95
 Thr Pro Leu Val Pro Gly Thr Pro Thr Trp Asp Ser Phe His Gly Gln
 100 105 110
 Leu Asn Ala Gln Lys Tyr Ser Pro Leu Thr Gln Ile Thr Ala Asp Asn
 115 120 125
 Val Gly Lys Leu Thr Lys Val Trp Glu Phe His Thr Gly Asp Val Ser
 130 135 140
 Asp Gly Lys Gly Asp Thr Pro Ala Thr Val Trp Ser Ala Thr Pro Ile
 145 150 155 160
 Phe Ala Asn Asp Thr Leu Tyr Ile Gly Thr Pro Phe Asp Arg Leu Ile
 165 170 175
 Ala Leu Asp Pro Gly Thr Gly Lys Glu Lys Trp His Tyr Asp Thr Lys
 180 185 190
 Ser Ser Arg Lys Ala Leu Thr Gln Pro Val Leu Lys Asn Arg Gly Val
 195 200 205
 Ser Tyr Trp Gln Ala Lys Asn Pro Val Ser Gly Glu Ala Cys Gln Lys
 210 215 220
 Met Val Tyr Met Gly Thr Val Asp Gly Lys Leu Phe Ala Leu Asp Ala
 225 230 235 240
 Asp Ser Gly Lys Pro Cys Ser Gly Phe Ala Asn Asn Gly Val Leu Asp
 245 250 255
 Leu Asn Gln Trp Asn Thr Val Asn Ala Lys Tyr Pro Leu Ser Val Leu
 260 265 270

Gln Pro Pro Thr Val Val Gly Asn His Leu Leu Val Gly Trp Ala Gly
 275 280 285
 Lys Asp Trp Ala Tyr Ala Glu Ala Pro Pro Gly Thr Val Phe Ser Val
 290 295 300
 Asn Ala Gln Thr Gly Lys Leu Glu Trp Thr Phe Glu Ala Ile Pro Ala
 305 310 315 320
 Glu Ile Arg Lys Arg Thr Gly Thr Ala Asn Val Trp Thr His Met Ser
 325 330 335
 Ala Asp Glu Ala Asn Gly Leu Val Tyr Leu Pro Val Ser Ser Pro Ser
 340 345 350
 Pro Asn Tyr Trp Gly Gly Asn Arg Val Asp Ala Ile Pro Leu Gly Thr
 355 360 365
 Ser Thr Thr Ala Leu Asp Ile Asn Thr Gly Lys Val Val Trp Ser Arg
 370 375 380
 Gln Trp Val His His Asp Val Trp Asp Tyr Asp Ile Asn Ser Ala Pro
 385 390 395 400
 Thr Leu Met Asp Ile Thr Val Asp Gly Lys Gln Ile Pro Ala Leu Ile
 405 410 415
 Gln Ala Thr Lys Gln Gly Phe Leu Phe Val Val Asn Arg Leu Thr Gly
 420 425 430
 Glu Asp Val Trp Pro Ile Glu Glu Arg Pro Val Pro Gln Gly Asp Gly
 435 440 445
 Ser Val Gln Gly Glu Val Leu Ser Pro Thr Gln Pro Phe Pro Thr Lys
 450 455 460
 Pro Ala Pro Leu Leu Asp Gln Ser Lys Lys Pro Glu Ile Trp Lys Leu
 465 470 475 480
 Ala Asp Ile Val Gly Gly Gly Gln Cys Ser Arg Leu Trp Asp Asn Leu
 485 490 495
 Thr Tyr Glu Gly Met Tyr Thr Pro Pro Thr Thr Lys Gly Glu Gly Thr
 500 505 510
 Leu Thr Tyr Pro Asp Ser Ala Gly Gly Val Gln Trp Gly Gly Val Ala
 515 520 525
 Phe Asp Pro Gln Lys Gln Ile Ala Ile Val Asn Thr Ser His Ile Val
 530 535 540
 Gln Tyr Val Lys Leu Tyr Ser Arg Glu Asp Tyr Asp Asn Ala Asp Lys
 545 550 555 560
 Asp Ser Gly Asn Glu Ser Gly Phe Ala Pro Gln Glu Gly Ala Pro Tyr
 565 570 575
 Gly Met Arg Leu Leu Val Ala Ser Asn Trp Leu Gly Met Pro Cys Trp
 580 585 590
 Gln Pro Pro Phe Gly Glu Ile Val Ala Leu Asp Met His Thr Gly Asp
 595 600 605
 Val Lys Trp Arg Arg Pro Val Gly Ala Ser Gln Gln Tyr Gly Phe Phe
 610 615 620
 Met Pro Glu Ser Trp Gly Ser Pro Thr Ile Gly Gly Pro Ala Val Thr
 625 630 635 640
 Ala Gly Gly Val Ile Phe Ile Gly Ala Ser Met Asp Ala Lys Val Arg
 645 650 655
 Ala Tyr Ser Val Glu Ser Gly Glu Glu Leu Trp Ser Asp Gln Ala Glu
 660 665 670
 Ala Pro Ala Val Ala Asn Pro Ser Val Tyr Glu Tyr Lys Gly Arg Gln
 675 680 685
 Tyr Val Ala Phe Val Ala Gly Gly Asn Thr Ile Leu Lys Asp Gln Val
 690 695 700
 Gly Asp Gln Val Val Val Tyr Ala Leu Pro Glu
 705 710 715

<210> 10199

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10199

Gly Thr Thr Met Lys Lys Arg Ala Gly Val Leu Thr Val Ala Val Val
 1 5 10 15
 Ala Leu Leu Ser Gly Cys Thr Pro Arg Ile Glu Val Ala Ala Pro Lys
 20 25 30
 Glu Pro Ile Thr Ile Asn Met Asn Val Lys Ile Glu His Glu Ile His
 35 40 45
 Ile Lys Val Asp Lys Asp Val Glu Ala Leu Leu Lys Ser Arg Ser Asp
 50 55 60
 Leu Phe
 65

<210> 10200

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 10200

Glu Gly Ala Thr Tyr Arg Thr Pro Arg Ala Asp Ala Gly Arg Asp Ala
 1 5 10 15
 Val Ser Pro Ala Arg Leu Pro Arg Pro Ala Val Val Lys Glu Asp Ala
 20 25 30
 Met Gln Arg Leu Val Asp Ile Ala Pro Ala Gln Ile Pro Gln Ile Trp
 35 40 45
 Ala Leu Leu Ser Gln Ile Pro Asp Pro Glu Val Pro Val Leu Thr Ile
 50 55 60
 Thr Asp Leu Gly Met Val Arg Ser Val Lys Ala Gln Gly Glu Gly Trp
 65 70 75 80
 Val Ile Gly Phe Thr Pro Thr Tyr Ser Gly Cys Pro Ala Thr Glu His
 85 90 95
 Leu Leu Gly Ala Ile Arg Glu Thr Leu Thr Gly Asn Gly Phe Ser Pro
 100 105 110
 Val His Ile Val Leu Gln Leu Glu Pro Ala Trp Thr Thr Asp Trp Met
 115 120 125
 Thr Asp Asp Ala Arg Arg Arg Leu Arg Glu Tyr Gly Ile Ser Pro Pro
 130 135 140
 Val Gly His Ser Cys His Ala His Val Pro Ala Glu Val Ser Cys Pro
 145 150 155 160
 Arg Cys Ala Ser Thr Asp Thr Ser Leu Ile Ser Glu Phe Gly Ser Thr
 165 170 175
 Ala Cys Lys Ala Leu Tyr Arg Cys Asn Thr Cys Arg Glu Pro Phe Asp
 180 185 190
 Tyr Phe Lys Cys Ile
 195

<210> 10201

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10201

Cys Glu Gly Asp Gly Met Ser Glu Leu Ile Val Thr Arg His Gly Arg
 1 5 10 15
 Val Leu Gln Leu Thr Leu Asn Arg Pro Ala Ala Arg Asn Ala Leu Asn
 20 25 30
 Asn Ala Leu Leu Leu Gln Ile Ala Glu Gln Leu Glu Ala Ala Ala Ala
 35 40 45
 Asp Ala Glu Ile Ala Val Cys Val Met Tyr Gly Asn Glu Arg Cys Phe
 50 55 60
 Ala Ala Gly Ala Asp Leu Asn Glu Met Ala Glu Lys Asp Leu Pro Ala

65					70					75				80
Thr	Leu	Asn	Asp	Ile	Arg	Pro	Gln	Leu	Trp	Ala	Arg	Ile	Asn	Ala Phe
				85					90				95	
Thr	Lys	Pro	Leu	Ile	Ala	Ala	Val	Asn	Gly	Phe	Ala	Leu	Gly	Ala Gly
			100					105					110	
Cys	Glu	Leu	Ala	Leu	Leu	Cys	Asp	Val	Val	Ile	Ala	Gly	Asp	Asn Ala
		115					120					125		
Arg	Phe	Gly	Leu	Pro	Glu	Ile	Thr	Ile	Gly	Ile	Met	Pro	Gly	Ala Gly
	130						135				140			
Gly	Thr	Gln	Arg	Leu	Ile	Arg	Ser	Val	Gly	Lys	Ser	Leu	Ala	Ser Lys
145					150					155				160
Met	Val	Leu	Thr	Gly	Glu	Ser	Ile	Thr	Ala	Val	Gln	Ala	His	Ser Ala
				165					170					175
Gly	Leu	Val	Ser	Asp	Val	Tyr	Pro	Ala	Ser	Leu	Thr	Leu	Glu	Tyr Ala
			180					185					190	
Leu	Lys	Gln	Ala	Ala	Leu	Met	Ala	Arg	His	Ser	Pro	Leu	Ala	Leu Gln
		195					200					205		
Ala	Ala	Lys	Gln	Ala	Leu	Arg	Gln	Ser	Gln	Glu	Val	Pro	Leu	Gln Ala
		210					215				220			
Gly	Leu	Ala	Gln	Glu	Arg	Gln	Leu	Phe	Ala	Leu	Leu	Ala	Ala	Thr Asp
225					230					235				240
Asp	Arg	Arg	Glu	Gly	Ile	Asn	Ala	Phe	Leu	Gln	Lys	Arg	Thr	Pro Asp
				245					250					255
Phe	Lys	Gly	Arg											
			260											

<210> 10202

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 10202

Ser	Ser	Arg	Arg	Ser	Thr	Pro	Pro	Lys	Pro	Thr	Pro	Ser	Thr	Pro	Ser
1				5					10					15	
Leu	Ile	Trp	Ser	Ala	Thr	Ile	Asn	Ala	Trp	Pro	Asp	Ala	Ala	Thr	Thr
			20					25					30		
Thr	Gly	Lys	Ala	Ser	Ala	Arg	Ser	Trp	Gln	Asn	Ala	Arg	Arg	Thr	Leu
		35					40					45			
Arg	Gly	Asn	Asn	Met	Val	Asn	Ile	His	Thr	Val	Ala	Val	Ile	Gly	Ser
	50					55				60					
Gly	Thr	Met	Gly	Ala	Gly	Ile	Ala	Glu	Val	Ala	Ala	Ser	His	Gly	His
65					70					75					80
Pro	Val	Leu	Val	Tyr	Asp	Ile	Asp	Ala	Ala	Ala	Ile	Ser	Arg	Ala	Val
				85				90					95		
Asp	Gly	Ile	Arg	Gln	Arg	Leu	Ser	Ser	Arg	Val	Ala	Arg	Gly	Lys	Leu
			100					105					110		
Ser	Ala	Asp	Ala	Gly	Glu	Gln	Ile	Leu	Ala	Arg	Leu	Thr	Pro	Val	Thr
		115					120					125			
Asn	Ile	Ser	Ala	Leu	Ala	Lys	Ala	Asp	Leu	Val	Ile	Glu	Ala	Ala	Ser
	130					135					140				
Glu	Arg	Leu	Glu	Val	Lys	Lys	Ala	Leu	Phe	Thr	Gln	Leu	Ala	Glu	Val
145					150					155					160
Cys	Pro	Pro	Gln	Thr	Leu	Leu	Ala	Ser	Asn	Thr	Ser	Ser	Ile	Ser	Val
				165					170					175	
Thr	Ala	Ile	Ala	Ala	Glu	Ile	Asn	His	Pro	Glu	Arg	Val	Ala	Gly	Leu
			180				185						190		
His	Phe	Phe	Asn	Pro	Ala	Pro	Val	Met	Lys	Leu	Val	Glu	Val	Val	Ser
		195					200					205			
Gly	Leu	Ala	Thr	Ser	Pro	Glu	Val	Ala	Asp	Ala	Leu	Cys	Glu	Leu	Ala
	210					215				220					
Leu	Ser	Trp	Gly	Lys	Gln	Pro	Val	Arg	Cys	Gln	Ser	Thr	Pro	Gly	Phe

225					230					235				240
Ile	Val	Asn	Arg	Val	Ala	Arg	Pro	Phe	Tyr	Ser	Glu	Ala	Trp	Arg
				245					250					255
Leu	Glu	Glu	Gln	Val	Ala	Thr	Pro	Glu	Val	Ile	Asp	Ala	Ala	Leu
			260					265					270	
Asp	Gly	Gly	Gly	Phe	Pro	Met	Gly	Pro	Leu	Glu	Leu	Thr	Asp	Met
		275					280					285		Ile
Gly	Gln	Asp	Val	Asn	Phe	Ala	Val	Thr	Cys	Ser	Val	Phe	Asn	Ala
	290					295					300			Phe
Trp	Gln	Glu	Arg	Arg	Phe	Leu	Pro	Ser	Leu	Val	Gln	Gln	Glu	Leu
305					310					315				320
Leu	Ala	Gly	Arg	Leu	Gly	Lys	Lys	Ser	Gly	Gln	Gly	Val	Tyr	Arg
				325					330					335
Leu	Glu	Asp	Lys	Pro	Ala	Val	Arg	Trp	Leu	Ala	Pro	Val	Ser	Asp
			340					345					350	Ser
Phe	Asn	Pro	Met	Arg	Val	Gln	Arg	Arg	Ser	Asp	Gly	Val	Thr	Glu
		355					360					365		Ile
Asp	Asp	Leu	Leu	Leu	Ile	Glu	Thr	Gln	Gly	Glu	Thr	Ala	Gln	Ser
	370					375					380			Leu
Ala	Leu	Arg	His	Gly	Cys	Pro	Val	Val	Val	Val	Asp	Arg	Ile	Glu
385					390					395				Arg
Asp	Val	Ala	Val	Ile	Ala	Ala	Ala	Pro	Gly	Asn	Pro	His	Ala	Ala
				405					410					Thr
Gln	Lys	Ala	Ile	Tyr	Cys	Leu	Gln	His	Gln	Gln	Lys	Arg	Val	Val
			420					425					430	Gln
Ile	Ala	Asp	Tyr	Pro	Gly	Leu	Leu	Val	Trp	Arg	Thr	Val	Ala	Met
		435					440					445		Ile
Ala	Asn	Glu	Ala	Leu	Asp	Ala	Leu	Gln	Lys	Gly	Val	Ala	Ser	Glu
	450					455					460			Gln
Asp	Ile	Asp	Thr	Ala	Met	Arg	Leu	Gly	Val	Asn	Tyr	Pro	Cys	Gly
465					470					475				Pro
Ile	Ala	Trp	Gly	Glu	Arg	Leu	Gly	Trp	Gln	Arg	Leu	Leu	Thr	Leu
				485					490					Leu
Glu	Asn	Leu	Gln	Arg	His	Tyr	Gly	Glu	Glu	Arg	Tyr	Arg	Pro	Cys
			500					505					510	Ser
Leu	Leu	Arg	Gln	Arg	Ala	Leu	Leu	Glu	Ser	Ser	Tyr	Glu	Ser	
		515					520					525		

<210> 10203

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10203

Asn	Ser	Glu	Pro	Thr	Thr	Glu	Asn	Arg	Arg	Ser	Phe	Ser	Arg	Glu	Ile
1				5					10					15	
Ala	Pro	His	Arg	Arg	Gln	Tyr	Asp	Arg	Arg	Ser	Leu	Met	Arg	Asp	Ala
			20					25					30		
Phe	Ile	Cys	Glu	Gly	Val	Arg	Thr	Pro	Val	Gly	Arg	Tyr	Gly	Gly	Gly
		35					40				45				
Leu	Ser	Ser	Val	Arg	Ala	Asp	Asp	Leu	Gly	Ala	Val	Pro	Leu	Arg	Ala
	50					55				60					
Leu	Leu	Ala	Arg	Tyr	Pro	Gln	Leu	Asp	Leu	Glu	Arg	Ile	Asp	Asp	Val
65					70					75				80	
Ile	Phe	Gly	Cys	Ala	Asn	Gln	Ala	Gly	Glu	Asp	Asn	Arg	Asn	Val	Ala
			85					90						95	
Arg	Met	Ser	Ser	Leu	Leu	Ala	Gly	Leu	Pro	Gln	Thr	Val	Ser	Gly	Thr
			100				105						110		
Thr	Ile	Asn	Arg	Leu	Cys	Gly	Ser	Gly	Leu	Asp	Ala	Leu	Gly	Phe	Ala
		115					120					125			
Ala	Arg	Ala	Ile	Lys	Ala	Gly	Asp	Gly	Asp	Leu	Leu	Ile	Ala	Gly	Gly

130	135	140
Val Glu Ser Met Ser Arg Ala Pro Phe Val Met Gly Lys Ala Thr Ala		
145	150	155
Ala Phe Gln Arg Gln Ala Glu Ile Phe Asp Thr Thr Ile Gly Trp Arg		
	165	170
Phe Val Asn Pro Leu Met His Gln Gln Tyr Gly Thr Asp Ser Met Pro		
	180	185
Glu Thr Ala Glu Asn Val Ala Glu Leu Leu Asn Ile Ser Arg Ala Asp		
	195	200
Gln Asp Ala Phe Ala Leu Arg Ser Gln Gln Arg Thr Ala Arg Ala Gln		
	210	215
Gln Asn Gly Val Leu Ala Gln Glu Ile Ile Pro Val Gln Val Ala Gly		
225	230	235
Lys Lys Gly Ala Val Thr Glu Val Ser Val Asp Glu His Pro Arg Ala		
	245	250
Glu Thr Thr Leu Glu Gln Leu Ala Ala Leu Lys Ala Pro Phe Arg Lys		
	260	265
Asn Gly Val Val Thr Ala Gly Asn Ala Ser Gly Val Asn Asp Gly Ala		
	275	280
Ala Ala Leu Ile Ile Ala Ser Glu Pro Met Ala Leu Ala Gln Gly Leu		
	290	295
Thr Pro Arg Thr Arg Ile Val Ala Met Ala Thr Ala Gly Val Glu Pro		
305	310	315
Arg Leu Met Gly Leu Gly Pro Val Pro Ala Thr Arg Lys Val Leu Glu		
	325	330
Arg Ala Gly Leu Ser Ile Thr Asp Met Asp Val Ile Glu Leu Asn Glu		
	340	345
Ala Phe Ala Ala Gln Ala Leu Gly Val Leu Arg Gln Leu Gly Leu Pro		
	355	360
Asp Asp Ala Glu His Val Asn Pro Asn Gly Gly Ala Ile Ala Leu Gly		
	370	375
His Pro Leu Gly Met Ser Gly Ala Arg Leu Ala Leu Ala Ala Ser Asn		
385	390	395
Glu Leu His Arg Arg Gly Gly Arg Tyr Ala Leu Cys Thr Met Cys Ile		
	405	410
Gly Val Gly Gln Gly Ile Ala Met Ile Leu Glu Arg Val		
	420	425
		430

<210> 10204

<211> 662

<212> PRT

<213> Enterobacter cloacae

<400> 10204

Gly His Ser Met Lys Leu Thr Leu Ile Ala Lys His Leu Ala Leu Ala	
1	5
Gly Val Leu Thr Ser Leu Ser Leu Ser Ser Phe Ala Glu Val Gln Pro	
	20
Gln Asp Ala Thr Ala Thr Thr Arg Gln Val Asn Asn Ala Leu Tyr Asn	
	35
Lys Leu Pro Phe Ala Asp Lys Thr Asp Phe Glu Asn Ala His Lys Gly	
	50
Phe Ile Ala Pro Leu Pro Gln Asn Met Ile Lys Gly Glu Gln Gly Asn	
65	70
Val Ile Trp Asn Pro Ala Lys Tyr Asp Phe Val Lys Glu Gly Glu Lys	
	85
Ala Pro Asp Thr Val Asn Pro Ser Leu Trp Arg Gln Ser Gln Leu Ile	
	100
Asn Ile Gly Gly Leu Phe Lys Leu Thr Asp Gly Val Tyr Gln Ile Arg	
	115
Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Glu Lys Gly Ile	
	120
	125

130	135	140
Thr Val Ile Asp Pro Leu	Leu Ser Ala Glu Pro	Ala Lys Glu Ala Leu
145	150	155
Asp Leu Tyr Tyr Ala Asn	Arg Gly Lys Lys Pro	Val Val Ala Val Val
165	170	175
Ile Thr His Ser His Val	Asp His Tyr Gly Gly	Leu Arg Gly Val Val
180	185	190
Asp Glu Ala Asp Val Lys	Ser Gly Lys Val Lys	Ile Tyr Ala Pro Asp
195	200	205
Gly Phe Met Lys Glu Ala	Val Ser Glu Asn Ile	Met Ala Gly Asn Ala
210	215	220
Met Ser Arg Arg Ala Arg	Tyr Met Tyr Gly Asn	Leu Leu Lys Pro Asp
225	230	235
Ala Lys Gly Gln Val Gly	Ala Gly Leu Gly Thr	Thr Thr Thr Ser Ala Gly
245	250	255
Thr Val Thr Leu Ile Pro	Pro Thr Asp Tyr Ile	Thr His Thr Gly Gln
260	265	270
Glu Glu Val Ile Asp Gly	Leu Thr Tyr Asp Phe	Met Met Ala Pro Gly
275	280	285
Ser Glu Ala Pro Ser Glu	Met Leu Trp Tyr Val	Lys Glu Lys Lys Met
290	295	300
Ile Glu Ala Ala Glu Asp	Val Thr His Thr Leu	His Asn Thr Tyr Ser
305	310	315
Leu Arg Gly Ala Lys Ile	Arg Asp Pro Leu Ala	Trp Ser Lys Tyr Ile
325	330	335
Asn Ala Ala Ile Glu Arg	Trp Gly Ala Asp Ala	Glu Val Ile Ile Ala
340	345	350
Gln His His Trp Pro Thr	Trp Gly Asn Glu Asn	Ile Val Lys Leu Met
355	360	365
Lys Gly Gln Arg Asp Met	Tyr Arg Tyr Ile Asn	Asp Gln Thr Leu Arg
370	375	380
Met Ala Asn Lys Gly Leu	Thr Arg Asp Glu Ile	Ala Ala Glu Phe Lys
385	390	395
Leu Pro Glu Ser Leu Glu	Lys Gln Trp Ala Ser	Arg Gly Tyr Tyr Gly
405	410	415
Ser Val Ser His Asp Val	Lys Ala Thr Tyr Val	Phe Tyr Leu Gly Trp
420	425	430
Phe Asp Gly Asn Pro Ala	Thr Leu Asp Glu Leu	Pro Pro Glu Leu Ala
435	440	445
Glu Lys Lys Phe Val Gln	Tyr Met Gly Gly Ala	Asp Ala Ile Met Gln
450	455	460
Lys Ala Lys Ala Asp Tyr	Gln Gln Gly Asn Tyr	Arg Trp Val Ala Gln
465	470	475
Val Val Ser Lys Val Val	Phe Ala Asp Pro Asn	Asn Gln Ala Ala Arg
485	490	495
Asn Leu Glu Ala Asp Ala	Leu Glu Gln Leu Gly	Tyr Gln Ala Glu Ala
500	505	510
Gly Thr Trp Arg Asn Phe	Tyr Leu Thr Gly Ala	Gln Glu Leu Arg Asn
515	520	525
Gly Val Lys Lys Leu Pro	Thr Pro Asn Thr Ala	Ser Pro Asp Thr Val
530	535	540
Arg Ala Met Thr Pro Glu	Met Phe Phe Asp Tyr	Leu Gly Val His Ile
545	550	555
Asn Gly Val Arg Ala Gly	Asn Ala Lys Ala Val	Phe Asn Val Asp Leu
565	570	575
Gly Lys Asp Gly Lys Tyr	Lys Leu Glu Leu Glu	Asn Gly Val Leu Leu
580	585	590
Asn His Thr Ala Asn Ala	Gln Ala Lys Asp Ala	Asp Ala Thr Ile Thr
595	600	605
Leu Asp Arg Thr Thr Leu	Asn Asn Ile Ile Leu	Lys Lys Glu Thr Leu
610	615	620

Lys Gln Ala Met Asp Lys Gly Asp Val Lys Val Ser Gly Asn Gly Ala
 625 630 635 640
 Lys Leu Glu Glu Met Leu Ser Tyr Met Asp Thr Phe Asp Phe Trp Phe
 645 650 655
 Asn Ile Val Thr Pro
 660

<210> 10205

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10205

Cys Ala Val Ala Ala Gly Arg Ser Leu Cys Gly His Leu Asp Asp Ala
 1 5 10 15
 Leu Val Ala Pro Ala Tyr Cys Pro Gly Cys Ser Ala Thr Ala Ala Gly
 20 25 30
 Leu Leu Arg Gly Arg His Ala Arg Arg Ser His Cys Ser Pro Ala Gly
 35 40 45
 Leu Leu Arg Cys Arg Arg Asp Asp Leu Arg Thr Ser Pro Asp Thr Arg
 50 55 60
 Leu Gly Arg Thr Arg Arg Glu Ala Glu Ser Glu Ile Met Lys Thr Val
 65 70 75 80
 Leu Ile Thr Gly Ala Ser Ser Gly Ile Gly Ala Gly Leu Ala Lys Ser
 85 90 95
 Phe Ala Asp Asp Gly Tyr Arg Val Ile Ala Cys Gly Arg Asp Ala Gln
 100 105 110
 Arg Leu Ala Ala Val His Gln His Ser Pro Asn Ile Thr Val Arg Leu
 115 120 125
 Phe Asp Met Thr Asp Arg Asp Ala Cys Arg Gln Ala Leu Ala Asp Cys
 130 135 140
 Ala Ala Asp Thr Val Ile Leu Cys Ala Gly Thr Cys Glu Tyr Leu Asp
 145 150 155 160
 Arg Gly Glu Val Asp Ala Glu Leu Val Ala Arg Val Met Thr Thr Asn
 165 170 175
 Phe Met Gly Pro Val Asn Cys Leu Ala Ala Leu Gln Pro Gln Leu Val
 180 185 190
 Ser Gly Asn Arg Val Val Leu Val Ser Ser Met Ala His Trp Leu His
 195 200 205
 Phe Pro Arg Ala Glu Ala Tyr Gly Ala Ser Lys Ala Ala Leu Thr Trp
 210 215 220
 Phe Ala Asp Thr Leu Arg Leu Asp Trp Glu Pro Lys Gly Ile Ala Val
 225 230 235 240
 Thr Val Val Ser Pro Gly Phe Val Asp Thr Pro Leu Thr Arg Lys Asn
 245 250 255
 Asp Phe Pro Met Pro Gly Arg Val Ser Val Gly Asp Ala Val His Ala
 260 265 270
 Ile Arg Arg Gly Leu Ala Lys Gly Lys Asp His Ile Ala Phe Pro Ala
 275 280 285
 Gly Phe Ser Leu Ala Leu Arg Leu Leu Ser Gly Leu Pro Asp Val Leu
 290 295 300
 Gln Arg Ala Leu Leu Arg Arg Met Val Arg Pro
 305 310 315

<210> 10206

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 10206

Thr Leu Ser Arg Pro Gly Arg Ala Thr Glu Met Asn Ser Cys Leu Tyr

1				5					10					15
His	Gly	Thr	Leu	Arg	His	Arg	Arg	Leu	Ala	Pro	Lys	Ala	His	Phe
			20					25					30	
Thr	Tyr	Ser	Val	Phe	Met	Ala	Trp	Leu	Asp	Leu	Asp	Glu	Leu	Asp
		35					40					45		
Leu	Pro	Ser	Val	Gly	Val	Arg	Arg	Asn	Arg	Val	Ala	Pro	Ala	Phe
	50					55					60			
Tyr	Asp	Ala	Asp	Tyr	Pro	Leu	Gly	Thr	Pro	Leu	Lys	Glu	His	Val
65				70					75					80
Glu	Arg	Leu	Glu	Asn	Leu	Thr	Gly	Glu	Arg	Pro	Ala	Gly	Arg	Val
				85				90						95
Leu	Leu	Thr	Gln	Leu	Arg	Tyr	Phe	Gly	Phe	His	Phe	Asn	Pro	Val
			100					105					110	Asn
Phe	Tyr	Tyr	Cys	Tyr	Asp	Gly	Glu	Asp	Thr	Leu	Arg	Trp	Val	Leu
		115				120						125		Ala
Glu	Val	Arg	Asn	Thr	Pro	Trp	Asn	Glu	Arg	His	Tyr	Tyr	Ala	Val
	130					135					140			Ala
Gly	Arg	Asp	Ala	Pro	Pro	Thr	Gln	Lys	Ala	Phe	His	Val	Ser	Pro
145				150					155					Phe
Asn	Pro	Met	Asp	Met	Val	Tyr	His	Trp	Arg	Phe	Asn	Ser	Pro	Asp
			165					170						175
Thr	Leu	Arg	Met	His	Ile	Glu	Asn	His	Gln	Glu	Thr	Lys	Val	Phe
		180					185						190	Asp
Ala	Thr	Leu	Thr	Leu	Arg	Arg	Ala	Pro	Leu	Thr	Arg	Ala	Ala	Leu
		195				200						205		Arg
Ser	Leu	Leu	Ala	Arg	Ile	Pro	Leu	Met	Thr	Leu	Lys	Thr	Val	Phe
	210				215				220					Ala
Ile	Tyr	Trp	Gln	Ala	Leu	Arg	Leu	Trp	Leu	Lys	Arg	Val	Pro	Leu
225				230					235					His
Asn	His	Pro	Leu	Ser	Arg	Ser	Glu	Arg	Ser					240
			245					250						

<210> 10207

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10207

Ser	Leu	Leu	Asp	Ala	Gly	Gly	Ala	Val	Ser	Arg	Ala	Gly	Ala	Gly	His
1				5					10					15	
Leu	Asp	Arg	Ala	Gly	Gly	Ala	Cys	Leu	Ala	Val	Ile	Thr	Ala	Ile	Thr
		20						25					30		
Pro	Gly	Ile	Arg	Pro	Cys	Ala	Gly	Gly	Val	Gly	Cys	Ala	Ala	Gly	Arg
		35					40					45			
Pro	Leu	Gly	Ala	Asp	Gly	Ala	Asp	Cys	Val	His	Arg	Arg	Val	Pro	Asp
	50				55					60					
Ala	Ala	Met	Asp	Gly	Gly	Ala	Val	Ala	Asn	Val	Cys	His	Arg	Leu	Asp
65				70					75					80	
Ala	Pro	Asp	Pro	His	Asp	His	Leu	Ala	Arg	Met	Val	Ala	Asp	Gly	Ala
				85				90						95	
Gly	Asp	Ser	Gly	Arg	Thr	Gly	Ser	Leu	Pro	Asp	Arg	Arg	Ala	Ser	Trp
			100					105					110		
Gly	His	Tyr	Val	Ser	Gly	Ala	Asp	Leu	Tyr	Arg	Arg	Gln	Leu	Asp	Val
		115				120						125			
Pro	Arg	Leu	Ala	Gly	Ala	Asp	Ala	Val	Phe	Pro	Pro	Val	Asp	Gly	Glu
	130				135					140					
Thr	Thr	Met	Arg	Asn	Leu	Val	Leu	Met	Leu	Ala	Leu	Ser	Val	Phe	Thr
145				150					155					160	
Cys	Thr	Val	Gln	Ala	Ala	Asp	Trp	Leu	Ser	Trp	Arg	Lys	Val	Gly	Asp
			165				170							175	
Ala	Thr	Leu	Thr	Trp	Gly	Pro	Phe	Ile	Val	Tyr	Thr	Ser	Gln	Leu	Leu

			180					185				190			
Thr	Pro	Asp	Gly	Ser	Tyr	Thr	Gly	Leu	Asp	Gly	Asp	Asn	Ala	Leu	Ile
		195					200					205			
Ile	Thr	Tyr	Ala	Arg	Asp	Ile	Asp	Gly	Asp	Asp	Leu	Val	Glu	Ala	Thr
	210					215					220				
Arg	Asp	Gln	Trp	Gln	Ala	Gln	Gly	Ile	Leu	Gln	Gln	Glu	Pro	Gln	Ser
225					230					235					240
Glu	Ala	Trp	Leu	Arg	Met	Leu	Ser	Thr	Leu	Trp	Pro	Asp	Val	Thr	Pro
				245					250					255	
Gly	Thr	Gln	Leu	Ala	Phe	Val	Val	Asn	Asn	Gly	Gln	Gly	Gln	Phe	Trp
		260						265					270		
Tyr	Arg	Pro	Thr	Ala	Ser	Gln	Lys	Lys	Phe	Thr	Pro	Leu	Gly	Pro	Arg
		275					280					285			
Gln	Thr	Ala	Ala	Phe	Ser	Ser	Arg	Phe	Leu	Ala	Ile	Trp	Leu	Asp	Pro
	290					295					300				
Arg	Thr	Glu	Tyr	Pro	Glu	Leu	Arg	Gln	Gln	Leu	Thr	Gly	Gly	Ala	Gln
305					310					315					320

<210> 10208

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 10208

Thr	Asn	Met	Thr	Lys	Leu	Thr	Leu	Gln	Glu	Gln	Met	Leu	Lys	Ala	Gly
1				5					10					15	
Leu	Val	Ser	Ser	Lys	Lys	Met	Ala	Lys	Val	Gln	Arg	Thr	Ala	Lys	Lys
		20						25					30		
Ser	Arg	Val	Gln	Ala	Arg	Glu	Ala	Arg	Glu	Ala	Val	Glu	Glu	Asn	Lys
		35					40					45			
Lys	Ala	Gln	Leu	Glu	Arg	Asp	Lys	Gln	Leu	Ser	Glu	Gln	Gln	Lys	Gln
	50				55					60					
Ala	Val	Leu	Ala	Lys	Glu	Phe	Arg	Ala	Gln	Val	Lys	Gln	Leu	Ile	Glu
65					70				75						80
Met	Asn	Arg	Ile	Thr	Val	Ala	Lys	Gly	Asn	Ile	Thr	Phe	Asn	Phe	Thr
			85						90					95	
Asp	Gly	Asn	Leu	Ile	Lys	Lys	Ile	Glu	Val	Asp	Lys	Gln	Thr	Gln	Thr
		100						105					110		
Gln	Leu	Ile	Asn	Gly	Arg	Leu	Ala	Ile	Ala	Arg	Leu	Val	Ile	Asn	Ala
	115						120					125			
Lys	Gly	Asp	Cys	Asp	Tyr	Ala	Ile	Ile	Pro	Ala	Val	Val	Ala	Asp	Lys
	130					135					140				
Ile	Ala	Gln	Arg	Asp	Ala	Asp	Ser	Ile	Val	Leu	Asn	Ser	Ala	Leu	Ser
145					150					155					160
Gln	Glu	Glu	Gln	Asp	Glu	Asp	Asp	Pro	Tyr	Ala	Asp	Phe	Lys	Ile	Pro
				165					170					175	
Asp	Asp	Leu	Met	Trp											
			180												

<210> 10209

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 10209

Arg	Ala	Glu	Arg	Gly	Ile	Ile	Asp	Gly	Ser	Val	Cys	Cys	Lys	Glu	Val
1				5					10					15	
Thr	Met	Thr	Met	Ala	Leu	Phe	Pro	Cys	Leu	Pro	Gly	Pro	Thr	Leu	Asp
			20					25					30		

Ala Val Asn Thr Val Gly Ala Trp Leu Ala Gln Asp Asp Tyr Gln Asp
 35 40 45
 Asn Gln Pro Val Asp Leu Val Ile Leu Ala Gly Asn Ala Val Val Pro
 50 55 60
 Ala Ile Asp Ala Ala Cys Lys Asn Ala Ala Glu Gln Gly Val Pro Leu
 65 70 75 80
 Ile Ile Ser Gly Gly Ile Gly His Ser Thr Thr Phe Leu Tyr Ala Ala
 85 90 95
 Ile Ala Lys His Pro Arg Tyr Asn Arg Ile Pro Thr Thr Gly Arg Ala
 100 105 110
 Glu Ala Ala Ile Leu Ala Asp Ile Ala Arg Glu Phe Trp Asn Ile Pro
 115 120 125
 Ala Glu His Leu His Val Glu Asp Gln Ser Thr Asn Cys Gly Glu Asn
 130 135 140
 Ala Arg Phe Ser Arg Ala Leu Met Lys Gln Ser Gly Leu Asn Ala Ala
 145 150 155 160
 Arg Val Leu Val Val Gln Asp Pro Thr Met Gln Arg Arg Thr Met Ala
 165 170 175
 Thr Phe Ala Arg Val Cys Arg Asp Glu Ala Ala Ala Pro Ala Trp Val
 180 185 190
 Ser His Pro Gly Leu Thr Pro Val Leu Gln Asn Ser Asp Asp Gly Leu
 195 200 205
 Val Phe Ser Gly Pro Ala Glu Gly Leu Trp Pro Val Glu Arg Tyr Leu
 210 215 220
 Ser Leu Val Leu Gly Glu Phe Pro Arg Leu Arg Asp Asp Ile Asn Gly
 225 230 235 240
 Tyr Gly Pro Ala Gly Arg Asp Phe Ile Ala His Val Asp Ile Pro Ala
 245 250 255
 Asp Val Asp Ala Ala Trp Gln Ile Leu Arg Asn Asp Val Ile Leu Thr
 260 265 270
 Asp Ala Leu Val Ser Arg Ser Leu Leu
 275 280

<210> 10210

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10210

Asn Met Ser His Arg Lys Trp Asp Gly Ala Ile Ala Met Arg Asn Leu
 1 5 10 15
 Ala Leu Trp Tyr Arg Arg Phe Gly Glu Pro Glu Ser Val Leu Gln Ala
 20 25 30
 Glu Thr Thr Pro Leu Ser Pro Arg Gln Pro Gly Glu Ile Arg Val Arg
 35 40 45
 Met Leu Phe Ser Pro Val Asn Ala Ser Asp Leu Ile Pro Ile Thr Gly
 50 55 60
 Ala Tyr Arg His Arg Thr Pro Leu Pro Ala Ile Ala Gly Tyr Glu Gly
 65 70 75 80
 Val Gly Ile Val Thr Glu Thr Pro Ala Ala Tyr Pro Ala Leu Leu Gly
 85 90 95
 Lys Arg Val Leu Pro Leu Arg Gly Gln Gly Thr Trp Gln Arg Tyr Val
 100 105 110
 Asp Cys Pro Ala Ala Tyr Ala Val Pro Val Pro Asp Asp Val Asp Ser
 115 120 125
 Leu Leu Ala Ala Arg Ala Tyr Ile Asn Pro Leu Ala Ala Gln Met Met
 130 135 140
 Leu Asp Arg Tyr Pro Pro Val Gly Lys Thr Val Leu Leu Thr Ala Ala
 145 150 155 160
 Gly Ser Asp Cys Ala Val Leu Leu Gly Gln Trp Ala Arg Gln Ala Gly
 165 170 175

Ala Glu Ala Val Tyr Gly Ile His Arg Ser Pro Val His Ala Gln Arg
 180 185 190
 Leu Ala Glu Lys Gly Ile Val Pro Ile Ala Gln His Asp Met Ala Ala
 195 200 205
 Val Asn Ala Ala Ala Arg Ala Asp Val Val Tyr Asp Ala Thr Gly
 210 215 220
 Gly Ser Leu Ala Glu Thr Ile Leu Ser Val Met Pro Glu Thr Gly Thr
 225 230 235 240
 Phe Val Cys Tyr Gly Leu Leu Ser Gly Gln Thr Phe Arg Gln Gln Arg
 245 250 255
 Pro Leu Pro Arg Val Ala Trp Phe His Ile Arg Asn Tyr Leu Asp Ala
 260 265 270
 Leu Ser Ala Glu Ala Trp Gln Ala Glu Phe Arg Arg Ile Trp Pro Lys
 275 280 285
 Leu Arg Ala Ser Gln Cys Ser Asp Val Thr Leu Tyr Pro Leu Ser Glu
 290 295 300
 Trp Gln Arg Ala Val Gly Asn Tyr Arg Glu Ala Gly Arg Thr Gly Lys
 305 310 315 320
 Pro Met Leu Ser Met Asp Asn
 325

<210> 10211

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10211

Phe Pro Ile Phe Trp Phe Ala Val Arg Ser Glu Pro Arg Trp Ile Ile
 1 5 10 15
 Phe Ser Ser Arg Arg Lys Asn Met Phe Tyr Trp Ile Leu Leu Ala Leu
 20 25 30
 Ala Ile Val Ala Glu Ile Thr Gly Thr Leu Ser Met Lys Trp Ala Ser
 35 40 45
 Val Ser Asp Gly Ser Thr Gly Phe Ile Leu Met Leu Val Met Ile Thr
 50 55 60
 Leu Ser Tyr Ile Phe Leu Ser Phe Ala Val Lys Lys Ile Ala Leu Gly
 65 70 75 80
 Val Ala Tyr Ala Leu Trp Glu Gly Val Gly Ile Leu Leu Ile Thr Leu
 85 90 95
 Phe Ser Val Met Leu Phe Asp Glu Thr Leu Thr Thr Met Lys Ile Ala
 100 105 110
 Gly Leu Thr Thr Leu Val Ala Gly Ile Val Leu Ile Lys Ser Gly Thr
 115 120 125
 Arg Lys Pro Ala Lys Gln Gln Lys Glu Gln Thr His Ala Ala Val
 130 135 140

<210> 10212

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10212

Met Phe Ser Phe Asp Ala Gly Val Arg Leu Gly Pro Asp Asp Cys Arg
 1 5 10 15
 Ala His His Ala Arg Tyr Gly Asp Gly Cys Val Asp Ala Leu Ala His
 20 25 30
 Phe Arg Arg Tyr Gly Phe Thr Gln Thr Pro Ala Asp Leu Asp Ala His
 35 40 45
 Pro Cys Ile Ala Tyr Gln Phe Ala Asp Gly Asn His Tyr Gln Trp Glu
 50 55 60
 Leu Val Gln Asp Gly Lys Arg Val Thr His Arg Pro Glu Gly Gln Trp

65					70					75				80	
Ala	Phe	Ser	Asp	Ser	Tyr	Met	Glu	Ala	Glu	Ala	Ala	Arg	Leu	Gly	Leu
				85					90					95	
Gly	Leu	Ala	Tyr	Val	Pro	Val	Glu	Leu	Met	Gly	Asp	Asp	Pro	Glu	Arg
			100					105					110		
Gly	Thr	Leu	Ile	Arg	Val	Leu	Gln	Arg	Tyr	Ser	Leu	Arg	Met	Asp	Gly
		115					120					125			
Leu	Tyr	Leu	Tyr	Tyr	Pro	His	Arg	Asn	Val	Ser	Pro	Ala	Leu	Arg	Ala
	130					135					140				
Val	Ile	Asp	Thr	Leu	Lys	Ile									
145						150									

<210> 10213

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10213

Pro	Phe	Ile	Gly	Lys	Gly	Val	Arg	Leu	Met	Tyr	Lys	Lys	Ile	Leu	Met
1				5					10					15	
Pro	Val	Asp	Val	Phe	Glu	Met	Asp	Leu	Ser	Asp	Lys	Ala	Val	Arg	His
			20					25					30		
Ala	Val	Asn	Leu	Ala	Lys	Ala	Glu	Gly	Ala	Thr	Ile	Thr	Leu	Val	Asn
		35					40					45			
Ile	Leu	Pro	Asn	Ser	Ser	Arg	Ser	Leu	Leu	Arg	Gly	Phe	Asn	Ala	Asp
	50					55					60				
Ile	Lys	Lys	Phe	Glu	Glu	Tyr	Met	Thr	Ala	Glu	Ser	Asp	Lys	Lys	Met
65					70					75					80
Lys	Ala	Leu	Lys	Arg	Leu	Phe	Asp	Met	Ser	Pro	Glu	Asn	Ile	Asp	Cys
			85						90					95	
Glu	Val	Arg	Phe	Gly	Asn	Val	Arg	Asp	Glu	Ile	Ile	Lys	Leu	Ser	Lys
			100					105					110		
Glu	Gly	Lys	Tyr	Asp	Val	Ile	Val	Ile	Gly	Ser	Arg	Asn	Pro	Ser	Met
		115					120					125			
Thr	Thr	His	Leu	Leu	Gly	Ser	Asn	Ala	Glu	Thr	Ile	Leu	Arg	Tyr	Ala
	130					135					140				
Thr	Ile	Pro	Val	Leu	Val	Val	Arg								
145						150									

<210> 10214

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10214

Glu	Val	Lys	Met	Lys	Val	Asp	Ala	Leu	Thr	Gln	Lys	Ala	Glu	Glu	Glu
1				5					10					15	
Ile	Ser	Ala	Leu	Ile	Ala	Lys	Lys	Ile	Ala	Glu	Leu	Arg	Lys	Lys	Thr
			20					25					30		
Gly	Gln	Glu	Val	Ser	Glu	Ile	Glu	Phe	Ile	Ala	Arg	Glu	Ala	Met	Thr
		35					40					45			
Gly	Leu	Glu	Gly	Tyr	Glu	Val	Lys	Ile	Lys	Leu	Leu				
	50					55					60				

<210> 10215

<211> 882

<212> PRT

<213> Enterobacter cloacae

<400> 10215

Leu	Pro	Met	Lys	Gly	Lys	Tyr	Lys	Ala	Ala	Ile	Ala	Leu	Leu	Leu	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5				10				15			
Leu	Leu	Leu	Val	Pro	Leu	Thr	Leu	Leu	Met	Thr	Leu	Ala	Gln	Trp	Val
			20					25					30		
Pro	Thr	Leu	Ala	Gly	Ile	Trp	Leu	Pro	Val	Gly	Thr	Arg	Ile	Ala	Phe
		35					40					45			
Glu	Glu	Ser	Pro	Arg	Leu	Thr	Arg	His	Ala	Leu	Ile	Ile	Pro	Asp	Leu
	50					55				60					
Arg	Tyr	Leu	Val	Glu	Glu	Cys	Glu	Ile	Ala	Arg	Val	Glu	Asn	Val	Thr
65				70						75					80
Leu	Ser	His	Pro	Ser	Arg	Trp	Asp	Leu	Asp	Ile	Gly	Ala	Leu	Glu	Leu
				85					90					95	
Asn	Ser	Val	Cys	Leu	Ser	Lys	Leu	Pro	Gln	Ser	Ala	Ser	Ser	Thr	Val
			100				105					110			
Ala	Pro	Lys	Thr	Leu	Ala	Gln	Trp	Gln	Ala	Ile	Leu	Pro	Asn	Thr	Trp
		115					120					125			
Leu	Thr	Ile	His	Arg	Phe	Thr	Leu	Ser	Pro	Trp	Gln	Gln	Trp	Glu	Gly
	130					135					140				
Glu	Leu	His	Ala	Ser	Leu	Thr	Pro	Ala	Arg	Gln	Asp	Ile	Thr	Tyr	Asn
145				150						155					160
Gly	Glu	Gln	Val	Ser	Ile	Lys	Gly	Gln	Leu	Arg	Gly	Gln	Thr	Leu	Ser
				165					170					175	
Ile	Ser	Gln	Phe	Asp	Val	Gln	Leu	Pro	Asp	Gln	Pro	Gln	Pro	Val	Lys
			180					185				190			
Leu	Ile	Gly	Glu	Phe	Thr	Leu	Pro	Leu	Val	Pro	Asp	Gly	Val	Pro	Val
		195					200					205			
Lys	Gly	His	Thr	Val	Ala	Thr	Phe	Asn	Val	Pro	Gln	Leu	Ser	Ser	Leu
	210					215					220				
Val	Asp	Ala	Asp	Leu	Asp	Trp	Glu	Asp	Asn	Gln	Gly	Gln	Leu	Val	Val
225				230						235					240
Met	Ala	Arg	Asp	Asn	Pro	Asp	Pro	Leu	Leu	Asp	Leu	Pro	Trp	Gln	Ile
				245					250					255	
Thr	Ala	Gln	Gln	Leu	Thr	Ile	Ser	Asp	Gly	Arg	Trp	Asn	Trp	Ser	Ala
			260					265					270		
Ser	Gly	Met	Pro	Met	Ser	Gly	Arg	Val	Gly	Leu	Lys	Val	Asp	Asn	Trp
		275					280					285			
Gln	Gln	Gly	Leu	Glu	Lys	Ala	Thr	Phe	Thr	Gly	Arg	Leu	Asn	Val	Leu
	290					295					300				
Thr	Gln	Gly	Asp	Ala	Gly	Lys	Gly	Asn	Ala	Val	Leu	Asn	Ile	Gly	Pro
305				310						315					320
Gly	Ser	Leu	Ser	Met	Glu	Asn	Ser	Ala	Met	Pro	Leu	His	Leu	Ser	Gly
				325					330					335	
Glu	Ala	Lys	Gln	Asn	Asp	Leu	Ile	Leu	Tyr	Ala	Arg	Leu	Pro	Ala	Lys
			340					345					350		
Leu	Thr	Gly	Ser	Leu	Tyr	Asp	Pro	Gln	Leu	Thr	Phe	Glu	Pro	Gly	Ala
		355													

Trp Ser Arg Asp Pro Asp Asn Pro Thr Phe Ser Gly Ala Leu Ala Leu
 500 505
 Asn Ala Gly Gln Thr Ser Phe Ser Gly Gly Ser Val Leu Pro Pro Ser
 515 520 525
 Val Leu Thr Phe Ser Val Asp Gly Thr Asp Pro Thr Val Phe Gln Phe
 530 535 540
 Lys Gly Asn Leu His Ala Asp Asp Ile Gly Pro Val Gln Val Asn Gly
 545 550 555 560
 Arg Trp Asp Gly Glu Arg Leu Arg Gly Lys Ala Trp Trp Pro Lys Gln
 565 570 575
 Ser Leu Thr Val Phe Gln Pro Leu Ile Pro Pro Asp Trp Lys Met Thr
 580 585 590
 Leu Arg Gly Gly Glu Met Tyr Ala Gln Val Ala Phe Ser Ala Ala Ser
 595 600 605
 Asp Gln Gly Phe Glu Ala Gly Gly His Gly Val Leu Lys Ala Gly Ser
 610 615 620
 Ala Trp Met Pro Asp Asn Glu Ile Asn Gly Ala Asp Phe Val Leu Pro
 625 630 635 640
 Phe Arg Leu Ser Gln Asp Thr Trp Ser Leu Gly Thr Arg Gly Pro Val
 645 650 655
 Thr Leu Arg Ile Asp Glu Val Lys Asn Leu Val Thr Ala Arg Asn Ile
 660 665 670
 Thr Ala Asp Leu Gln Gly Asp Tyr Pro Trp Thr Glu Ala Asn Pro Leu
 675 680 685
 Leu Leu Thr Asn Val Lys Val Glu Ala Leu Gly Gly Lys Ile Thr Met
 690 695 700
 Gln Gln Leu Arg Met Pro Gln His Asp Pro Ala Leu Leu Arg Val Asp
 705 710 715 720
 Asn Ile Ser Ser Ser Glu Leu Ile Ser Ala Val Asn Pro Lys Gln Phe
 725 730 735
 Ala Met Ser Gly Pro Val Ser Gly Ala Leu Pro Phe Trp Leu Asp Asn
 740 745 750
 Glu Lys Trp Ile Ile Lys Asp Gly Trp Leu Thr Asn Pro Gly Pro Met
 755 760 765
 Thr Leu Arg Ile Asp Gln Asp Thr Ala Asp Ala Ile Val Lys Asp Asn
 770 775 780
 Val Val Ala Gly Ala Ala Ile Asn Trp Leu Arg Tyr Met Glu Ile Ser
 785 790 795 800
 Gln Ser Trp Thr Lys Leu Asn Val Asp Asn Leu Gly Val Leu Thr Met
 805 810 815
 Gln Ala Ala Ile Lys Gly Thr Ser Arg Val Glu Gly Lys Ser Ser Phe
 820 825 830
 Val Asn Leu Asn Tyr Thr His Glu Glu Asn Ile Phe Thr Leu Trp Arg
 835 840 845
 Ser Leu Arg Phe Gly Asp Asn Leu Gln Thr Trp Phe Glu Gln His Ala
 850 855 860
 Ala Ile Pro Leu Leu Arg Gly Ser Thr Gly Lys Glu Ser Glu Glu Gln
 865 870 875 880
 Gln

<210> 10216

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10216

Asn Pro Ala Ala Ile Cys Ser Glu Asp Ala Met Lys Arg Leu Ala Leu
 1 5 10 15
 Met Leu Leu Ala Leu Gly Met Asn Val His Ala Ala Thr Leu Thr Leu
 20 25 30

Asn Asp Ala Arg Ala Gln Gly Arg Val Gly Glu Thr Leu Ser Gly Tyr
 35 40 45
 Leu Ala Pro Val Gln His Asp Ala Glu Thr Leu Ala Leu Val Ser Arg
 50 55 60
 Ile Asn Ala Ala Arg Thr Glu Ser Tyr Gln Gln Leu Ala Asp Ser Asn
 65 70 75 80
 Asn Leu Pro Val Asp Glu Val Ala Lys Met Ala Gly Gln Lys Leu Val
 85 90 95
 Ala Arg Ala Gln Pro Gly Glu Tyr Val Lys Gly Ile Asn Gly Lys Trp
 100 105 110
 Leu Lys Lys
 115

<210> 10217

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10217

Trp Tyr Arg Ala Tyr Val Arg Leu Gly Met Asn Asn Val Ser Ala Tyr
 1 5 10 15
 Ala Leu Cys Leu Gly Asp Asn Gly Leu Val Leu Ser Gln Arg Leu Gly
 20 25 30
 Ala Trp Cys Gly His Ala Pro Glu Leu Glu Ile Asp Leu Ala Leu Ala
 35 40 45
 Asn Ile Gly Leu Asp Leu Leu Gly Gln Ala Arg Asn Phe Leu Thr Tyr
 50 55 60
 Ala Ala Glu Arg Glu Gly Lys Gly Asp Glu Asp Thr Leu Ala Tyr Gly
 65 70 75 80
 Arg Asp Glu Arg Gln Phe Arg Asn Leu Leu Val Glu Gln Pro Asn
 85 90 95
 Gly Ser Phe Ala Asp Thr Ile Ala Arg Gln Tyr Leu Met Asp Ala Trp
 100 105 110
 Asn Val Ala Leu Tyr Glu Arg Leu Ile His Ser Ser Asp Ser Gln Leu
 115 120 125
 Ala Ala Ile Ala Ala Lys Ala Ile Lys Glu Ala Arg Tyr His Leu Arg
 130 135 140
 Phe Ser Arg Gly Trp Leu Val Arg Leu Gly Asp Gly Thr Glu Thr Ser
 145 150 155 160
 Ala Gln Lys Met Gln Gln Ala Val Asp Ser Leu Trp Arg Phe Thr Ala
 165 170 175
 Glu Leu Phe Asp Ala Asp Glu Val Glu Leu Ala Leu Ile Asp Asp Gly
 180 185 190
 Val Ala Val Asp Pro Arg Asp Leu Arg Asp Pro Trp Glu Arg Glu Val
 195 200 205
 Phe Ala Gly Leu Ala Glu Ala Thr Leu Arg Val Pro Glu Glu Val Ala
 210 215 220
 Tyr Arg Thr Gly Gly Lys Lys Gly Leu His Thr Glu His Leu Gly Pro
 225 230 235 240
 Met Leu Ala Glu Met Gln Tyr Leu Gln Arg Val Tyr Pro Gly Gln Gln
 245 250 255
 Trp

<210> 10218

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 10218

Ala Ala Arg Ala Val Arg Ala Pro Ile Pro Arg Leu Ser Val Asn Leu

1				5					10				15
Asp	Pro	Arg	Pro	Ala	Lys	Arg	Ser	Thr	Ala	Ala	Ile	Pro	Ala
			20					25				30	
Pro	Ser	Thr	Ile	Ser	Asn	Val	Phe	Glu	Ala	Ala	Met	Thr	Thr
		35					40				45		
Ser	Leu	Thr	Val	Ala	Lys	Val	Glu	Pro	Glu	Thr	Arg	Asp	Ala
	50					55					60		
Ile	Thr	Phe	Ala	Val	Pro	Gln	Ala	Leu	Gln	Glu	Ala	Tyr	Arg
65					70				75				80
Pro	Gly	Gln	His	Leu	Thr	Leu	Lys	Ala	Ser	Pro	Gly	Gly	Asp
				85					90				95
Arg	Arg	Cys	Tyr	Ser	Ile	Cys	Arg	Ser	Thr	Ala	Cys	Gly	Glu
			100					105				110	
Val	Ala	Val	Lys	Ala	Ile	Glu	Gly	Gly	Arg	Phe	Ser	Arg	Tyr
	115						120					125	
Asp	Glu	Ile	Lys	Pro	Gly	Met	Ala	Leu	Glu	Val	Met	Val	Pro
	130					135					140		
His	Phe	Gly	Tyr	Gln	Pro	Gln	Ala	Glu	Arg	Glu	Gly	His	Tyr
145					150				155				160
Ile	Ala	Ala	Gly	Ser	Gly	Ile	Thr	Pro	Met	Leu	Ala	Ile	Met
				165					170				175
Thr	Leu	Ala	Thr	Glu	Ala	His	Ser	His	Phe	Thr	Leu	Ile	Tyr
			180					185				190	
Arg	Ser	Ser	Gln	Ser	Met	Met	Phe	Arg	Arg	Ala	Leu	Ala	Asp
	195						200					205	
Asp	Lys	Tyr	Pro	Gln	Arg	Leu	Gln	Leu	Ile	Ala	Ile	Phe	Ser
	210					215					220		
Thr	Leu	Asp	Ser	Asp	Leu	Leu	His	Gly	Arg	Ile	Asp	Gly	Glu
225					230				235				240
Gln	Ala	Leu	Ala	Lys	Thr	Leu	Val	Asn	Phe	Arg	Gln	Tyr	Asp
				245					250				255
Phe	Ile	Cys	Gly	Pro	Ser	Ala	Met	Met	Asp	Glu	Ala	Glu	Ala
			260					265				270	
Gln	Ala	Leu	Gly	Met	Pro	Glu	Lys	Ala	Ile	His	Leu	Glu	Arg
	275						280					285	
Thr	Pro	Gly	Thr	Ala	Val	Lys	Arg	Thr	Ala	Ser	Val	Gln	Ala
	290					295					300		
Gln	Lys	Val	Thr	Val	Arg	Gln	Asp	Gly	Arg	Asp	Arg	Glu	Ile
305					310				315				320
Thr	Ala	Asp	Asp	Glu	Ser	Ile	Leu	Asp	Ala	Ala	Leu	Arg	Gln
			325						330				335
Asp	Leu	Pro	Tyr	Ala	Cys	Lys	Gly	Gly	Val	Cys	Ala	Thr	Cys
			340					345				350	
Lys	Val	Leu	Arg	Gly	Lys	Val	Asp	Met	Ala	Thr	Asn	Tyr	Ser
	355						360					365	
Pro	Asp	Glu	Leu	Ala	Ala	Gly	Tyr	Val	Leu	Ser	Cys	Gln	Ala
	370					375					380		
Leu	Thr	Ala	Asp	Val	Ile	Val	Asp	Phe	Asp	Ala	Lys	Gly	Met
385					390				395				400

<210> 10219

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 10219

Arg	Cys	Trp	Arg	Thr	Cys	Asn	Val	Thr	Thr	Ala	Arg	Asn	Ala	Ile	Ala
1				5				10					15		
Pro	Val	His	Cys	Cys	Ala	Ser	Val	Arg	Phe	Trp	Arg	Val	Ala	Met	Ser
			20					25				30			
His	Asn	Ala	Trp	His	Asn	Ala	Arg	Ala	Met	Tyr	Glu	Arg	Asp	Ala	Cys

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<210> 10220
<211> 326
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Lys	Cys	His	Asn 5	Ala	Gly	Asn	Thr	Cys 10	Ala	Gly	Asn	Ala	Leu 15	Met
Ile	Asp	Ala	Gly 20	His	Ile	Ser	Ile	Arg 25	Ala	Leu	Leu	Ile	Phe 30	Ile	Asp
Val	Tyr	Glu 35	Thr	Gln	Asn	Phe	Ser 40	Val	Val	Ala	Arg	Arg 45	Glu	Gly	Ile
Ser	Ala	Ser 50	Gln	Val	Ser	Arg 55	Val	Ile	His	Gln	Leu 60	Glu	Asp	Ala	Leu
Gly 65	Gln	Gln	Leu	Phe 70	Tyr	Arg	Asn	Thr	Arg	Ala 75	Ile	Met	Pro	Thr	Glu 80
Ser	Gly	His	Leu	Phe 85	Val	Arg	Tyr	Ala	Arg 90	Ala	Met	Ala	Gly	Asn 95	Met
Glu	Asp	Ala	Arg 100	Arg	Glu	Leu	Asp	Glu 105	Arg	Ala	Arg	Glu	Pro 110	Ser	Gly
Thr	Leu	Arg 115	Ile	Asn	Gly	Pro	Val	Phe 120	Phe	Gly	Gln	Arg 125	His	Ile	Ala
Pro	Gly 130	Leu	Pro	Gly	Leu	Leu 135	Ala	Arg	Tyr	Pro	Arg 140	Leu	Ser	Ile	Glu
Leu 145	Thr	Leu	Thr	Asp 150	Asp	Phe	Ile	Asp	Pro	His 155	Arg	Asp	Ala	Ala	Asp 160
Val	Ile	Phe	Arg 165	Ile	Gly	Ala	Leu	Thr	Asp 170	Ser	Ser	Phe	His 175	Ala	Arg
Val	Phe	Gly 180	Gln	Gln	Phe	Tyr	His	Leu 185	Ala	Ala	Ser	Pro	Asp 190	Tyr	Leu
Gln	Lys	His 195	Gly	Ala	Pro	Glu	Gly 200	Pro	Asp	Asp	Leu	Ser 205	Arg	His	His
Cys	Leu 210	Val	Tyr	Arg	Gly	Ser 215	Ser	Gly	Pro	Asn	Arg 220	Trp	Leu	Ile	Arg
Gln 225	Pro	Gly	Glu	Ala 230	Trp	Val	His	Tyr	Pro	Ile 235	Val	Pro	Leu	Met	Thr 240
Ser	Asn	Asn	Ala 245	Glu	Thr	Leu	Leu	Ile	Ala 250	Ala	Leu	Gly	Gly	Met 255	Gly
Val	Val	Leu 260	Phe	Pro	Asp	Trp	Met	Val 265	Ser	Glu	Arg	Leu	Lys	Ser	Gly
Glu	Leu	Val 275	Ala	Leu	Leu	Pro	Glu 280	Met	Glu	Cys	Ser	Ile	Asn	Thr	Glu
Pro	Leu	Thr	Ile	Ala	Ala	Ile	Tyr	Pro	Asn	Ala	Arg	His	Pro	Pro	Leu

290		295		300
Asn Val Arg Ala Val	Ile Asp Tyr Tyr Ile Glu Arg Phe Gly Thr Pro			
305	310	315		320
Leu Tyr Trp Gln Thr				
	325			

<210> 10221
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 10221

Leu	Gln	Glu	Gln	Val	Met	Thr	Val	Pro	Val	Gln	His	Pro	Met	Tyr	Ile
1				5					10					15	
Asp	Gly	Gln	Phe	Val	Ala	Trp	Gln	Gly	Asp	Ala	Trp	Ile	Asp	Val	Ile
			20					25					30		
Asn	Pro	Ala	Thr	Glu	Glu	Val	Ile	Ser	Arg	Ile	Pro	Asp	Gly	Thr	Ala
		35					40					45			
Glu	Asp	Ala	Arg	Lys	Ala	Ile	Asp	Ala	Ala	Glu	Arg	Ala	Gln	Ala	Gly
	50					55					60				
Trp	Glu	Ala	Leu	Pro	Ala	Ile	Glu	Arg	Ala	Ser	Trp	Leu	Arg	Lys	Ile
65					70					75					80
Ser	Ala	Gly	Ile	Arg	Glu	Arg	Val	Ser	Glu	Ile	Ser	Ala	Leu	Ile	Val
				85					90					95	
Ala	Glu	Gly	Gly	Lys	Ile	Gln	Gln	Leu	Ala	Glu	Val	Glu	Val	Asn	Phe
			100					105					110		
Thr	Ala	Asp	Tyr	Ile	Asp	Tyr	Met	Ala	Glu	Trp	Ala	Arg	Arg	Tyr	Glu
	115						120					125			
Gly	Asp	Ser	Phe	Arg	Ala	Thr	Val	Asp	Met	Pro	Gly	Ala	Lys	Val	Val
	130					135					140				
Arg	Thr	Ile	Gln	Ser	Asp	Ser	Arg	His	Ala	Arg	Gly	Glu	Gly	Ser	Ala
145					150					155					160
Tyr															

<210> 10222
 <211> 556
 <212> PRT
 <213> Enterobacter cloacae

<400> 10222

Lys	Val	Asn	His	Val	Met	Arg	Leu	Pro	Gln	Arg	Asp	Pro	Tyr	Ala	Pro
1				5					10					15	
Arg	Glu	Trp	Gln	Pro	His	Glu	Lys	Pro	Ala	Leu	Leu	Gly	Ser	Pro	Ser
			20					25					30		
Thr	Pro	Glu	His	Pro	Thr	Pro	Lys	Arg	Ile	Ala	Tyr	Gly	Val	Val	Gly
		35					40					45			
Leu	Leu	Val	Cys	Leu	Thr	Gly	Ala	Leu	Gly	Asn	Ala	Val	Val	Thr	Ala
	50					55					60				
Asn	Leu	Gln	Asn	Leu	Gln	Gly	Thr	Phe	Gly	Ala	Trp	Ser	Thr	Glu	Ile
65					70				75						80
Ala	Trp	Leu	Pro	Ala	Val	Tyr	Val	Met	Thr	Asn	Val	Ser	Ile	Asn	Leu
				85					90					95	
Leu	Leu	Val	Lys	Phe	Arg	Gln	Gln	Tyr	Gly	Leu	Arg	Ala	Phe	Thr	Glu
			100					105					110		
Gly	Phe	Leu	Val	Leu	Tyr	Val	Leu	Val	Thr	Phe	Phe	His	Leu	Phe	Val
	115						120					125			
Asn	Asp	Leu	Ser	Ser	Ala	Leu	Met	Val	Arg	Ala	Ala	His	Gly	Met	Val
	130					135					140				
Ala	Ala	Ala	Leu	Ser	Ser	Leu	Gly	Ile	Tyr	Tyr	Gln	Ile	Gln	Ala	Trp
145					150					155					160

Pro Ala Lys His Arg Leu Lys Ala Leu Thr Ile Gly Ile Thr Gly Ser
 165 170 175
 Ser Leu Ala Ile Pro Leu Ala Arg Leu Phe Ser Thr Glu Leu Leu Gln
 180 185 190
 Leu Asp Glu Trp Arg Gly Leu Tyr Phe Phe Glu Leu Gly Leu Ala Leu
 195 200 205
 Ile Ser Leu Ala Cys Val Met Val Leu Lys Leu Pro Pro Gly Asp Arg
 210 215 220
 Arg Lys Val Phe Glu Lys Lys Asp Phe Ile Thr Phe Phe Leu Leu Ala
 225 230 235 240
 Pro Gly Met Ala Leu Leu Cys Ala Val Leu Ser Leu Gly Arg Leu Asp
 245 250 255
 Trp Trp Phe Glu Ala Pro Trp Ile Gly Trp Ala Leu Ala Leu Ser Leu
 260 265 270
 Val Leu Ile Val Ser Ala Ile Val Phe Glu His Asn Arg Ser Asn Pro
 275 280 285
 Leu Leu Asn Thr Arg Trp Leu Ser Ser Gly Ser Ile Val Arg Leu Gly
 290 295 300
 Leu Ile Met Leu Leu Ile Arg Ile Val Leu Ala Glu Gln Asn Thr Gly
 305 310 315 320
 Val Ile Gly Trp Leu Gln Tyr Val Gly Leu Gln Asn Glu Gln Met Thr
 325 330 335
 His Leu Ala Trp Ala Ile Phe Ala Gly Ile Val Cys Gly Ile Val Thr
 340 345 350
 Ser Cys Leu Thr Ile Lys Pro Thr Lys Leu Ala Trp Pro Ile Ile Thr
 355 360 365
 Ser Leu Val Leu Met Ile Val Ala Ser Leu Leu Asp Ser Gln Ser Asn
 370 375 380
 Asn Leu Thr Arg Pro Asp Gln Leu Ile Phe Ser Gln Phe Leu Leu Gly
 385 390 395 400
 Phe Gly Ser Ala Phe Phe Leu Ala Pro Ala Met Leu Ala Ala Ile Gly
 405 410 415
 Gly Val Ile Ala Asp Pro Arg Asn Leu Val Ser Phe Ser Val Met Phe
 420 425 430
 Gly Met Ser Gln Asn Leu Gly Gly Leu Leu Gly Ser Ala Ile Leu Gly
 435 440 445
 Thr Phe Gln Thr Trp Arg Glu Lys Tyr His Ser Ser Leu Leu Ala Asp
 450 455 460
 Gln Leu Thr Thr Leu Asn Pro Leu Val Asn Glu Arg Ile Gln Leu Tyr
 465 470 475 480
 Thr Gln Met Tyr Lys Ser Leu Ile Gly Asp Ser Ser Leu Leu Gly Thr
 485 490 495
 Gln Ala Ile Thr Gln Leu Gln Thr Val Thr Ala Leu Glu Ala Asn Ile
 500 505 510
 Leu Ala Tyr Asn Asp Thr Tyr Leu Leu Thr Ala Ser Ile Ala Thr Ala
 515 520 525
 Thr Leu Val Trp Ile Leu Trp Arg Leu Leu Arg Leu Arg Ile Thr Ala
 530 535 540
 Arg Met Ala Leu Lys Asn Ala Thr Gly Asn Lys
 545 550 555

<210> 10223

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 10223

Ala Gly Gly Val Pro Ala Ala Ala Pro Trp His Val Gly Ala Gly Asp
 1 5 10 15
 His Arg His Ala Gly Gly Glu Thr Met Thr Leu Arg Pro Ile Ala Gly
 20 25 30

Leu Leu Met Met Ala Ile Leu Ala Gly Cys Gln Ser Val Asp Val Glu
 35 40 45
 Pro Ala Lys Ser Ser Leu His Ile Pro Ala Gln Trp Arg Ala Thr Ser
 50 55 60
 Gly Pro Ala Ser Pro Thr Glu Gln Leu Trp Trp Arg Asn Phe His Asp
 65 70 75 80
 Ser Asn Leu Asn Arg Tyr Val Asp Gln Ala Leu Lys Asn Asn Ser Asp
 85 90 95
 Val Leu Ile Ala Arg Glu Arg Ile Asn Glu Tyr Gln Ala Arg Val Phe
 100 105 110
 Ala Ala Asp Gly Ser Leu Phe Pro Ser Leu Asp Ala Gly Val Thr Gly
 115 120 125
 Thr Arg Ala Arg Ser Gln Ser Ala Ala Thr Gly Leu Pro Val Tyr Gly
 130 135 140
 Thr Leu Tyr Lys Gly Ser Leu Thr Ala Ser Tyr Asp Val Asp Ile Trp
 145 150 155 160
 Gly Val Asn Arg Ser Thr Ser Arg Ala Ala Glu Ala Ser Leu Glu Ala
 165 170 175
 Gln Lys Ala Ala Ala Ala Ala Asp Leu Thr Val Ala Ser Ser Val
 180 185 190
 Ala Ser Gly Tyr Val Thr Leu Leu Ser Leu Asp Glu Gln Leu Arg Val
 195 200 205
 Thr Gln Ser Thr Leu Lys Ser Arg Glu Glu Ala Phe Asn Leu Ala Lys
 210 215 220
 Arg Gln Phe Glu Thr Gly Tyr Ser Ser Arg Leu Glu Leu Met Gln Ser
 225 230 235 240
 Asp Ser Glu Leu Arg Ala Thr Arg Ala Gln Val Pro Leu Leu Gln His
 245 250 255
 Gln Ile Ala Gln Gln Glu Asn Ala Leu Ser Leu Leu Leu Gly Ser Asn
 260 265 270
 Pro Gly Asp Val Ala Arg Gly Glu Ser Phe Asp Ala Leu Thr Pro Leu
 275 280 285
 Lys Leu Pro Ser Gln Leu Pro Ser Thr Leu Leu Asn Arg Arg Pro Asp
 290 295 300
 Ile Val Gln Ala Glu Arg Gln Leu Ile Ala Ala Asp Ala Thr Leu Ala
 305 310 315 320
 Ala Ser Arg Ala Ser Leu Leu Pro Ser Ile Asn Leu Thr Ala Thr Gly
 325 330 335
 Ser Val Gln Asp Arg Thr Leu Ser Gly Leu Leu Asp Asn Pro Leu Gln
 340 345 350
 Leu Trp Ser Val Gly Gly Ser Ile Leu Ala Pro Leu Leu Asn Arg Gln
 355 360 365
 Ala Leu Asn Ala Gln Val Asp Ile Ser Gln Ser Gln Arg Asn Gln Ala
 370 375 380
 Leu Tyr Ser Tyr Glu Lys Thr Val Arg Asn Ala Phe Ala Glu Val Asn
 385 390 395 400
 Asp Ser Leu Asp Ala Ile Thr Arg Tyr Gln Glu Gln Leu Thr Glu Leu
 405 410 415
 Leu Ala Gln Gln Ala Val Ala Gln Glu Thr Leu Arg Ile Ala Gln Asn
 420 425 430
 Arg Tyr Arg Asn Gly Tyr Ser Ser Tyr Leu Asp Val Leu Asp Ala Gln
 435 440 445
 Arg Thr Leu Phe Ser Val Gln Thr Ser Val Val Gln Val Lys Asn Asn
 450 455 460
 Leu Leu Leu Ala Gln Ile Asp Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 465 470 475 480
 Ser Ser Ala

<210> 10224

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10224

Phe	Gly	Gly	Tyr	Cys	Cys	Tyr	Thr	Arg	Tyr	His	Gly	Lys	Arg	Cys	Gly
1				5					10					15	
Glu	Arg	Leu	Ser	Val	Asn	Phe	Gln	Asp	Ile	His	Thr	Tyr	Tyr	Gln	Gln
			20					25					30		
Leu	Asn	Ile	Gly	Gln	Phe	Phe	Pro	His	Met	Leu	Cys	Lys	Gly	Glu	Ala
		35					40					45			
Leu	Thr	Val	Ala	Ala	Asn	Lys	Lys	Leu	Thr	Val	Glu	Pro	Gly	Tyr	Ile
	50					55					60				
Tyr	Phe	Cys	Thr	Glu	Gly	Ser	Leu	Thr	Ile	Leu	Met	Pro	Asp	Asp	Gly
65					70					75					80
Leu	Asn	Ile	Gly	Asn	Thr	Ile	Glu	Tyr	Met	Pro	Ile	Gly	Leu	Met	Glu
				85					90					95	
Arg	Tyr	Cys	Pro	Leu	Ala	Lys	Tyr	Glu	Tyr	Arg	Ser	Ser	Ala	Lys	Val
			100					105					110		
Lys	Leu	Val	Arg	Ile	Ser	Trp	Val	Asp	Phe	Asp	Gln	Ile	Phe	Phe	Gln
		115					120					125			
Gly	Gly	Pro	Glu	Arg	Met	Gln	Ala	Leu	Ala	Thr	Ile	Leu	Thr	Tyr	Met
	130					135					140				
Ser	Ile	Phe	Thr	Ile	Asp	Leu	His	Asn	Glu	Arg	Arg	Gln	Val	Thr	Ser
145					150					155					160
Tyr	Gln	Thr	Ile	Lys	Pro	Met	Leu	Tyr	Arg	Tyr	Leu	Tyr	Arg	Gln	Glu
				165					170					175	
Thr	His	Thr	Gly	Glu	Asn	Glu	Gly	Leu	Ala	Leu	Phe	Ile	Ile	Lys	Arg
			180				185						190		
Thr	Asn	Leu	Ser	Arg	Thr	His	Val	Phe	Arg	Val	Leu	Ala	Asp	Leu	Lys
		195					200					205			
Ala	Gly	Gly	Tyr	Ile	Thr	Met	Lys	Arg	Gly	Lys	Leu	Val	Ser	Ile	Asp
	210					215					220				
Arg	Pro	Leu	Pro	Asp	Ala	Tyr									
225					230										

<210> 10225

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 10225

Phe	Glu	Ile	Lys	Leu	Phe	Ile	Val	Lys	Ser	Arg	Asn	Ile	Trp	Arg	Glu
1				5					10					15	
Glu	Met	Gln	Gln	Leu	Ala	Ser	Phe	Leu	Ser	Gly	Ile	Trp	Gln	Ser	Gly
			20					25					30		
Arg	Gly	Arg	Glu	Arg	Thr	Ile	Thr	His	Ala	Ile	Ser	Gly	Glu	Thr	Leu
		35					40					45			
Tyr	Gln	Val	Thr	Ser	Glu	Gly	Leu	Asp	Met	Ala	Ala	Ala	Arg	Arg	Tyr
	50					55					60				
Ala	Ile	Glu	His	Gly	Gly	Glu	Val	Leu	Arg	Ala	Met	Ser	Phe	Ile	Glu
65					70					75					80
Arg	Ala	Ala	Met	Leu	Lys	Ala	Val	Ala	Lys	His	Leu	Leu	Ser	Gln	Lys
				85					90					95	
Asp	Arg	Phe	Tyr	Ala	Leu	Ser	Ala	Gln	Thr	Gly	Ala	Thr	Lys	Ala	Asp
		100					105					110			
Ser	Trp	Val	Asp	Ile	Glu	Gly	Gly	Ile	Gly	Thr	Leu	Phe	Thr	Tyr	Ala
		115					120					125			
Ser	Leu	Gly	Ser	Arg	Glu	Leu	Pro	Asp	Asp	Thr	Leu	Trp	Pro	Glu	Asp
	130					135					140				
Glu	Leu	Ile	Pro	Leu	Ser	Lys	Glu	Gly	Gly	Phe	Ala	Ala	Arg	His	Val
145					150					155					160

Leu	Thr	Ser	Lys	Ser	Gly	Val	Ala	Val	His	Ile	Asn	Ala	Phe	Asn	Phe
				165					170					175	
Pro	Cys	Trp	Gly	Met	Leu	Glu	Lys	Leu	Ala	Pro	Thr	Trp	Leu	Ala	Gly
			180					185					190		
Met	Pro	Ala	Ile	Ile	Lys	Pro	Ala	Thr	Ala	Thr	Ala	Gln	Val	Thr	Gln
		195					200					205			
Ala	Met	Val	Lys	Ala	Ile	Val	Glu	Ser	Gly	Leu	Val	Pro	Asp	Gly	Ala
	210					215					220				
Ile	Ser	Leu	Ile	Cys	Gly	Gly	Ala	Gly	Asp	Leu	Leu	Asn	His	Leu	Asp
225					230				235						240
Ser	Gln	Asp	Val	Val	Thr	Phe	Thr	Gly	Ser	Ala	Ser	Thr	Gly	Gln	Ser
				245					250					255	
Leu	Arg	Val	His	Pro	Asn	Ile	Val	Ala	His	Ser	Ile	Pro	Phe	Thr	Met
			260					265						270	
Glu	Ala	Asp	Ser	Leu	Asn	Cys	Cys	Val	Leu	Gly	Glu	Asp	Val	Thr	Pro
		275					280					285			
Glu	Gln	Pro	Glu	Phe	Thr	Leu	Phe	Ile	Arg	Glu	Val	Val	Arg	Glu	Met
	290					295					300				
Thr	Ala	Lys	Ala	Gly	Gln	Lys	Cys	Thr	Ala	Ile	Arg	Arg	Ile	Ile	Val
305					310					315					320
Pro	Glu	Ala	Gln	Val	Glu	Ala	Val	Ser	Gln	Ala	Leu	Ile	Ala	Arg	Leu
				325					330					335	
Glu	Asn	Val	Val	Val	Gly	Asp	Pro	Ala	Gln	Glu	Gly	Val	Lys	Met	Gly
			340					345					350		
Ala	Leu	Val	Asn	Ser	Glu	Gln	Arg	Ala	Asp	Val	Gln	Glu	Lys	Val	Asp
		355					360					365			
His	Leu	Leu	Ala	Ser	Gly	Cys	Gln	Ile	Arg	Leu	Gly	Gly	Lys	Ala	Asp
	370					375					380				
Leu	Gln	Ala	Pro	Gly	Ala	Phe	Phe	Pro	Pro	Thr	Leu	Leu	Phe	Cys	Pro
385					390					395					400
Gln	Pro	Asp	Glu	Thr	Pro	Ala	Val	His	Ala	Thr	Glu	Ala	Phe	Gly	Pro
				405					410					415	
Val	Ala	Thr	Leu	Met	Pro	Cys	Arg	Asn	Thr	Glu	His	Ala	Met	Gln	Leu
			420					425					430		
Ala	Arg	Ala	Gly	Gly	Gly	Ser	Leu	Ala	Gly	Thr	Leu	Val	Thr	Ala	Asp
		435					440					445			
Thr	Arg	Val	Ala	Arg	Gln	Phe	Ile	Ala	Gly	Ala	Ala	Arg	Ala	His	Gly
	450					455					460				
Arg	Ile	Gln	Ile	Leu	Asn	Gln	Glu	Ser	Ser	Lys	Glu	Ser	Thr	Gly	His
465					470					475					480
Gly	Ser	Pro	Leu	Pro	Gln	Leu	Val	His	Gly	Gly	Pro	Gly	Arg	Ala	Gly
				485					490					495	
Gly	Gly	Glu	Glu	Leu	Gly	Gly	Leu	Arg	Ala	Val	Lys	His	Tyr	Leu	Gln
		500						505					510		
Arg	Thr	Ala	Ile	Gln	Gly	Ser	Pro	Ser	Met	Leu	Ala	Ala	Ile	Gly	Lys
		515					520					525			
Gln	Trp	Val	Arg	Gly	Ala	Glu	Val	Gln	Glu	Asp	Arg	Val	His	Pro	Phe
	530					535					540				
Arg	Lys	Tyr	Phe	Glu	Glu	Leu	Gln	Pro	Gly	Asp	Ser	Leu	Leu	Thr	Pro
545					550					555					560
Arg	Arg	Thr	Leu	Thr	Glu	Ala	Asp	Ile	Val	Asn	Phe	Ala	Cys	Leu	Ser
				565					570					575	
Gly	Asp	His	Phe	Tyr	Ala	His	Met	Asp	Lys	Ile	Gly	Ala	Ala	Glu	Ser
			580					585					590		
Ile	Phe	Gly	Glu	Arg	Val	Val	His	Gly	Tyr	Phe	Leu	Ile	Ser	Ala	Ala
		595					600					605			
Ala	Gly	Leu	Phe	Val	Asp	Ala	Gly	Val	Gly	Pro	Val	Ile	Ala	Asn	Tyr
	610					615					620				
Gly	Met	Glu	Asn	Leu	Arg	Phe	Ile	Glu	Pro	Val	Lys	Pro	Gly	Asp	Thr
625					630					635					640
Ile	Gln	Val	Arg	Leu	Thr	Cys	Lys	Arg	Lys	Thr	Leu	Lys	Lys	Gln	Arg

				645					650					655			
Thr	Ala	Glu	Glu	Lys	Pro	Thr	Gly	Val	Val	Glu	Trp	Ala	Val	Glu	Ile		
			660					665					670				
Phe	Asn	Gln	His	Gln	Gln	Ala	Val	Ala	Leu	Tyr	Ser	Ile	Leu	Thr	Leu		
		675					680					685					
Val	Ala	Arg	Gln	Gln	Gly	Asp	Phe										
	690					695											

<210> 10226

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10226

Arg	Ile	Ser	Thr	Arg	Gly	Glu	Asn	Thr	Met	Met	Thr	Tyr	Asp	Arg	Asn		
1				5					10					15			
Arg	Asn	Ala	Ile	Thr	Thr	Gly	Ser	Arg	Val	Met	Ile	Ser	Gly	Thr	Gly		
		20						25					30				
Gln	Phe	Gly	Val	Ile	Lys	Ala	Ile	His	Ser	Asp	Gly	Leu	Asn	Ala	Glu		
		35					40					45					
Gln	Val	Arg	Arg	Gly	Lys	Thr	Val	Glu	Val	Glu	Gly	Cys	Glu	Gly	Lys		
	50					55					60						
Phe	Glu	Pro	Ile	Glu	Leu	Ile	Arg	Leu	Gly	Met	His						
65					70					75							

<210> 10227

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10227

Arg	Asp	Leu	Pro	Lys	Trp	Leu	Leu	Trp	Ala	Arg	Asn	Ile	Pro	His	Tyr		
1				5					10					15			
Tyr	Lys	Ile	Arg	Phe	Leu	Asn	Phe	Arg	Val	Asn	Ile	Met	Ile	Tyr	Asp		
		20						25					30				
Cys	Phe	Leu	Tyr	Tyr	Asp	Glu	Asp	Met	Leu	Leu	Asp	Ile	Arg	Leu	His		
		35					40					45					
Thr	Leu	Ala	Asp	Val	Val	Asp	Arg	Phe	Val	Ile	Val	Glu	Ala	Thr	His		
	50					55					60						
Ser	Phe	Thr	Gly	Ile	Pro	Arg	Glu	Leu	His	Phe	Asp	Ile	Thr	Lys	Phe		
65				70					75						80		
Ala	Lys	Phe	Lys	Asp	Lys	Ile	Ile	Tyr	Val	Pro	Phe	Asp	Ala	Gln	Pro		
			85					90						95			
Ile	Leu	Asn	Arg	Ala	Asp	Asn	Asn	Gln	Val	Asp	Ala	Trp	Ala	Asn	Glu		
		100					105						110				
Ala	Ala	Leu	Arg	Asn	Ser	Ile	Met	Asn	Gly	Leu	Lys	Asp	Ala	Ala	Asp		
		115					120					125					
Asp	Asp	Leu	Ile	Leu	Val	Ser	Asp	Val	Asp	Glu	Ile	Phe	Ser	Pro	Asp		
	130					135					140						
Thr	Val	Arg	Ala	Ile	Asn	Pro	Arg	Ala	Leu	Cys	Thr	Thr	Ile	His	Gln		
145				150					155					160			
Asn	Val	Phe	Asn	Tyr	Gln	Phe	Asn	Leu	Gln	Val	His	Asn	Thr	Asp	Gly		
			165					170						175			
Thr	Pro	Arg	Lys	Cys	Thr	Leu	Pro	Arg	Ala	Thr	Ser	Tyr	Tyr	Asn	Leu		
			180				185						190				
Lys	His	Phe	His	Gly	Glu	Pro	Glu	Ser	Phe	Arg	Asn	Trp	Lys	Arg			
		195				200					205						
Ala	Arg	Lys	Asp	Lys	Asn	Trp	Ser	Trp	Phe	Lys	Trp	Asn	Trp	Leu	Lys		
	210				215						220						
Ile	Asn	Asn	Lys	Ile	Val	Lys	Asp	Gly	Gly	Trp	His	Phe	Ser	Trp	Val		
225					230					235					240		

Met	Thr	Pro	Glu	Arg	Ile	Ser	Glu	Lys	Met	Ser	Thr	Ile	Ser	His	Thr
				245					250					255	
Glu	Tyr	Asp	Leu	Pro	Glu	Phe	Asn	Asn	Pro	Glu	His	Ile	Met	Lys	Val
			260					265					270		
Ile	Thr	Asn	Ala	Glu	Asp	Ile	Trp	Gly	Arg	Asp	Arg	Lys	Leu	Val	Arg
		275					280					285			
Gln	Glu	Val	Ser	Lys	Arg	Thr	Leu	Pro	Ser	Tyr	Leu	Val	Asp	Asn	Gln
		290				295					300				
His	His	Tyr	Ser	Gln	Phe	Ile	Leu								
305					310										

<210> 10228

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10228

Pro	Cys	Tyr	Ala	Tyr	Ser	Leu	His	Ser	Glu	Lys	Glu	Leu	Gln	Met	Lys
1				5					10					15	
Arg	Leu	Pro	Trp	Ile	Thr	Ala	Leu	Leu	Met	Ser	Ala	Ser	Pro	Ala	
			20					25					30		
Leu	Leu	Ala	Ala	Pro	Asp	Ser	Cys	Glu	Arg	Val	Lys	Ser	Asp	Ile	Gln
		35					40					45			
Gln	Lys	Ile	Ile	Asn	Asn	Gly	Val	Pro	Glu	Ser	Gly	Phe	Thr	Leu	Asn
	50					55					60				
Ile	Val	Pro	Asn	Asp	Gln	Ala	Asp	Gln	Pro	Asp	Ala	Gln	Val	Val	Gly
65					70				75						80
His	Cys	Ala	Asn	Asp	Thr	Phe	Lys	Ile	Leu	Tyr	Thr	Arg	Thr	Ser	Ser
			85						90					95	
Gly	Asn	Tyr	Pro	Val	Ser	Gly	Ala	Gly	Thr	Gln	Glu	Asn	Ala	Pro	Ala
			100					105					110		
Glu	Pro	Gln													
		115													

<210> 10229

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10229

Pro	Cys	Gly	Cys	Arg	Ala	Thr	Arg	Tyr	Gln	Lys	Trp	Gly	Tyr	Gly	Ala
1				5					10					15	
Arg	Leu	Gln	Arg	Pro	Arg	Arg	Ser	Ala	His	Cys	Cys	Glu	Ser	His	Pro
			20					25					30		
Ala	His	His	Ala	Arg	Arg	Lys	Arg	Asp	Gly	Pro	Gly	Arg	Trp	His	Asp
		35					40					45			
Ala	Asn	Met	Asn	Gly	Asp	Arg	Val	Asp	His	Gly	Ser	Cys	Ile	Asn	Thr
	50					55					60				
Leu	Thr	Thr	His	Arg	Pro	Ser	Pro	Leu	Ala	Lys	Gly	Asn	Pro	Gln	His
65					70					75					80
Thr	Asn	Leu	Val	Gln	Ile	Glu	Lys	Ala							
				85					90						

<210> 10230

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10230

Ala	Phe	Arg	Gln	Ser	Ser	Asn	Arg	Arg	Tyr	Ser	Leu	Leu	Ile	Lys	Leu
1				5					10					15	

Lys Lys Glu Arg Thr His Gln Glu Asp Arg Arg Leu Ala Leu Trp Leu
 20 25 30
 Ala Thr Ser Ala Gly Leu Leu Asn Ala Ile Ala Leu Gly Ala Phe Gly
 35 40 45
 Phe Phe Pro Ser His Met Thr Gly Asn Thr Ser Gln Leu Ser Ser Glu
 50 55 60
 Val Ser Ser Thr Asp Leu Ser Asp Ile Leu Phe Phe Gly Ala Ile Ile
 65 70 75 80
 Leu Ser Phe Val Ser Gly Ala Ile Ala Ala Arg Ile Ile Val Ile Trp
 85 90 95
 Gly Ile Ile His Asn Ile Arg Leu Val Phe Ser Gln Val Leu Phe Val
 100 105 110
 Glu Gly Leu Leu Leu Ala Gly Val Ser Leu Tyr Glu Met Tyr Phe His
 115 120 125
 Ser Phe Ala Thr Asn Gln Glu Ile Ile Ile Phe Leu Cys Gly Leu Met
 130 135 140
 Gly Ile His Asn Ser Thr Ser Thr Gln Leu Ser Gly Gly Arg Val Arg
 145 150 155 160
 Ser Thr His Ile Thr Gly Thr Leu Thr Asp Ala Gly Ile Ser Leu Ala
 165 170 175
 Ser Val Met Val Ala Met Leu Arg Arg Asp Tyr Ser Lys Asp Thr Ala
 180 185 190
 Ala Gln Lys Ser Gln Leu Lys Thr His Leu Thr Thr Leu Phe Ser Phe
 195 200 205
 Ile Ser Gly Gly Ile Ala Gly Leu Ile Leu Phe Arg Glu Phe Gly Phe
 210 215 220
 His Ala Met Leu Ala Leu Gly Leu Met Leu Val Val Val Ala Ala Phe
 225 230 235 240
 Ser Ile Val Arg Ile Ser Trp Arg Val Arg Lys Val Arg Ala Ala Leu
 245 250 255
 Ser Arg Gln Val
 260

<210> 10231

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 10231

Gln Thr Val Ala Val Gly Gly Ala Met Glu Thr Ile His Tyr Ile Leu
 1 5 10 15
 Asp Asn Trp Asp Tyr Leu Leu Thr Leu Thr Leu Gln His Leu Trp Leu
 20 25 30
 Val Ala Leu Ala Val Gly Leu Ala Ile Ile Ile Gly Val Pro Leu Gly
 35 40 45
 Ile Leu Ile Val Arg His Lys Trp Leu Ala Thr Pro Val Leu Gly Ile
 50 55 60
 Ala Thr Ile Val Leu Thr Ile Pro Ser Ile Ala Leu Phe Gly Leu Met
 65 70 75 80
 Ile Pro Leu Phe Ser Leu Ile Gly Gln Gly Ile Gly Ala Leu Pro Ala
 85 90 95
 Ile Thr Ala Val Phe Leu Tyr Ser Leu Leu Pro Ile Val Arg Asn Thr
 100 105 110
 His Thr Ala Leu Asp Ser Leu Pro Pro Gly Leu Arg Glu Ala Gly Arg
 115 120 125
 Gly Ile Gly Met Thr Phe Trp Gln Arg Leu Arg Trp Val Glu Ile Pro
 130 135 140
 Met Ala Leu Pro Val Ile Phe Gly Gly Ile Arg Thr Ala Val Val Met
 145 150 155 160
 Asn Ile Gly Val Met Ala Ile Ala Ala Val Ile Gly Ala Gly Gly Leu
 165 170 175

Gly Leu Leu Leu Leu Asn Gly Ile Gly Gly Ser Asp Ile Arg Met Leu
 180 185 190
 Ile Ala Gly Ala Leu Met Ile Cys Leu Leu Ala Ile Val Leu Asp Trp
 195 200 205
 Leu Leu His Arg Leu Gln Val Val Leu Thr Pro Lys Gly Ile Arg
 210 215 220

<210> 10232

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 10232

Phe Arg His Glu Asp Phe Met Lys Asn Asn Asn Tyr Gln Gln Leu Thr
 1 5 10 15
 Arg Thr Phe Gln Arg Leu Ser Arg Phe Ser His Leu Ser Ser Ile Ala
 20 25 30
 Ser Trp Asp Met Phe Thr Met Met Pro Pro Gly Gly Ser Ala Ala Arg
 35 40 45
 Gly Glu Ala Leu Ala Glu Met Ser Val Leu Gln His Gln Ile Leu Thr
 50 55 60
 Asp Lys Lys Val Gly Glu Trp Leu Ala Ala Ala Asp Glu Asp Leu
 65 70 75 80
 Asn Asp Val Glu Leu Ala Asn Leu Arg Glu Met Thr Arg Tyr Tyr Gln
 85 90 95
 Gln Ala Thr Leu Leu Pro Glu Ser Leu Val Glu Ala Lys Ser Leu Ala
 100 105 110
 Gly Ser Arg Cys Glu His Ala Trp Arg Thr Gln Arg Pro Ala Asn Asp
 115 120 125
 Trp Gln Gly Phe Ser Ala Asn Leu Lys Glu Val Val Lys Leu Ser Arg
 130 135 140
 Glu Glu Ala Arg Leu Arg Ala Glu Ala Lys Gly Cys Thr Pro Tyr Asp
 145 150 155 160
 Ala Leu Leu Asp Ile Phe Glu Pro Asp Met Thr Ser Ala Arg Leu Asp
 165 170 175
 Val Leu Phe Gly Asp Leu Lys Ser Trp Leu Pro Glu Leu Leu Ala Lys
 180 185 190
 Val Val Glu Lys Gln Ala Gln Arg Ser Phe Val Pro Pro Gln Gly Pro
 195 200 205
 Phe Pro Thr Ala Thr Gln Arg Glu Leu Gly Leu Glu Ala Met Lys Met
 210 215 220
 Leu Gly Phe Asp Phe Asn Gly Gly Arg Leu Asp Val Ser Ala His Pro
 225 230 235 240
 Phe Cys Gly Gly Val Pro Glu Asp Val Arg Ile Thr Thr Arg Tyr Asp
 245 250 255
 Glu Asp Glu Leu Leu Ser Ala Leu Phe Gly Val Ile His Glu Thr Gly
 260 265 270
 His Ala Arg Tyr Glu Gln Asn Leu Pro Arg Ala Trp Ala Gly Gln Pro
 275 280 285
 Val Ala Leu Ala Arg Ser Thr Ala Ile His Glu Ser Gln Ser Leu Phe
 290 295 300
 Phe Glu Met Gln Leu Gly Arg Ser Asp Ala Phe Leu Lys His Leu Leu
 305 310 315 320
 Pro Ala Val His Ala Arg Phe Gly Ser Gln Ala Ala Phe Ser Glu Glu
 325 330 335
 Asn Phe Ile Ala Trp Asn Gln Arg Val Lys Pro Gly Tyr Ile Arg Val
 340 345 350
 Asp Ala Asp Glu Val Ser Tyr Pro Ala His Val Val Leu Arg Tyr Glu
 355 360 365
 Ile Glu Arg Ala Leu Ile Asn Gly Glu Ile Glu Val Asp Asp Ile Pro
 370 375 380

Ala	Leu	Trp	Asp	Glu	Lys	Met	Gln	Ala	Trp	Leu	Gly	Leu	Ser	Thr	Lys
385					390					395					400
Asp	Asn	Tyr	Arg	Asn	Gly	Cys	Met	Gln	Asp	Ile	His	Trp	Thr	Asp	Gly
				405					410					415	
Gly	Phe	Gly	Tyr	Phe	Pro	Ser	Tyr	Thr	Leu	Gly	Ala	Met	Tyr	Ala	Ala
			420					425					430		
Gln	Leu	Phe	His	Ala	Ala	Lys	Thr	Ala	Leu	Pro	Gly	Leu	Gln	Ile	Ser
		435					440					445			
Ile	Ala	Gly	Gly	Asp	Phe	Ser	Ala	Leu	Phe	Asp	Trp	Leu	Arg	Gln	Asn
	450					455				460					
Ile	Trp	Gln	His	Gly	Ser	Arg	Phe	Ser	Thr	Ser	Gln	Leu	Ile	Thr	Gln
465					470					475					480
Ala	Thr	Gly	Glu	Asp	Leu	Asn	Ile	Arg	Tyr	Phe	Arg	Glu	His	Leu	Thr
			485						490					495	
Ser	Arg	Tyr	Leu												
			500												

<210> 10233

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 10233

Ile	Pro	Phe	Pro	Pro	Asp	Leu	Pro	Arg	Arg	His	Ser	Glu	Tyr	Asn	Pro
1				5					10					15	
Leu	Pro	Pro	Ala	Pro	Val	Arg	Arg	His	Ser	Ser	Phe	Pro	Leu	Asp	Leu
			20					25				30			
Cys	Tyr	Gln	Tyr	Thr	Ile	Leu	Tyr	Ile	Asn	Thr	Val	Phe	Ile	Asn	Gly
		35					40					45			
Asp	His	Asn	Ala	Val	Phe	His	Pro	Thr	Trp	Arg	Tyr	Gln	Ser	Glu	Leu
	50					55					60				
Thr	Met	Phe	Ala	Leu	Cys	Asp	Val	Asn	Ala	Phe	Tyr	Ala	Ser	Cys	Glu
65					70					75					80
Thr	Val	Phe	Arg	Pro	Asp	Leu	Lys	Gly	Arg	Pro	Val	Val	Val	Leu	Ser
				85					90					95	
Asn	Asn	Asp	Gly	Cys	Val	Ile	Ser	Arg	Ser	Ala	Glu	Ala	Lys	Pro	Phe
			100					105					110		
Val	Lys	Met	Gly	Glu	Pro	Tyr	Phe	Lys	Gln	Lys	Asp	Arg	Phe	Arg	His
		115					120					125			
His	Gly	Val	Val	Cys	Phe	Ser	Ser	Asn	Tyr	Glu	Leu	Tyr	Ala	Asp	Met
	130					135					140				
Ser	Asn	Arg	Val	Met	Asn	Thr	Leu	Glu	Glu	Met	Ser	Pro	Arg	Ser	Glu
145					150					155					160
Ile	Tyr	Ser	Ile	Asp	Glu	Ile	Phe	Cys	Asp	Leu	Thr	Gly	Val	Arg	Asn
			165						170					175	
Cys	Arg	Asp	Leu	Ser	Asp	Phe	Gly	His	Glu	Met	Arg	Ala	Thr	Val	Leu
			180				185						190		
Gln	Arg	Thr	His	Leu	Thr	Val	Gly	Val	Gly	Ile	Ala	Pro	Thr	Lys	Thr
		195					200					205			
Leu	Ala	Lys	Leu	Ala	Asn	His	Ala	Ala	Lys	Arg	Trp	Gln	Leu	Gln	Thr
	210					215					220				
Gly	Gly	Val	Val	Asp	Leu	Ser	Asn	Val	Asp	Arg	Gln	Arg	Lys	Leu	Met
225					230					235					240
Ala	Ala	Leu	Pro	Val	Glu	Asp	Val	Trp	Gly	Val	Gly	Arg	Arg	Ile	Ala
				245					250					255	
Lys	Lys	Leu	Glu	Met	Met	Gly	Ile	Lys	Thr	Val	Leu	Gln	Leu	Ala	Asp
			260					265					270		
Thr	Asp	Ile	Arg	Phe	Ile	Arg	Lys	His	Phe	Asn	Val	Val	Leu	Glu	Arg
	275						280					285			
Thr	Val	Arg	Glu	Leu	Arg	Gly	Glu	Pro	Cys	Leu	Glu	Leu	Glu	Glu	Phe
	290					295					300				

Ala Pro Val Lys Gln Glu Ile Val Cys Ser Arg Ser Phe Gly Glu Arg
 305 310 315 320
 Ile Thr Glu Tyr Asp Val Arg Gln Ala Ile Cys Ser Tyr Ala Ala
 325 330 335
 Arg Ala Ala Glu Lys Leu Arg Asn Glu His Gln His Cys Arg Phe Ile
 340 345 350
 Ser Val Phe Val Lys Thr Ser Pro Phe Ala Leu Asn Glu Pro Tyr Tyr
 355 360 365
 Gly Asn Ser Ala Ser Val Lys Leu Leu Thr Pro Thr Gln Asp Ser Arg
 370 375 380
 Asp Ile Ile Gly Ala Ser Val Arg Cys Leu Asp Ala Val Trp Lys Asn
 385 390 395 400
 Gly His Arg Tyr Gln Lys Ala Gly Val Met Leu Gly Asp Phe Tyr Ser
 405 410 415
 Gln Gly Val Ala Gln Leu Asn Leu Phe Asp Asp Asn Ala Pro Arg Lys
 420 425 430
 Asn Gly Gln Lys Leu Met Asp Val Leu Asp His Leu Asn Ala Glu Asn
 435 440 445
 Gly Arg Gly Thr Leu Tyr Phe Ala Gly Gln Gly Ile Gln Gln Pro Trp
 450 455 460
 Gln Met Lys Arg Glu Met Leu Ser Pro Arg Tyr Thr Thr Arg Phe Ala
 465 470 475 480
 Asp Leu Leu Thr Val Lys
 485

<210> 10234

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 10234

Pro Cys Thr Phe Pro Thr Ala Asn Arg Ser Ala Arg His Pro Cys Gly
 1 5 10 15
 His Phe Cys Leu Thr Thr Trp Pro Ile Phe Met Phe Ile Lys Val Leu
 20 25 30
 Gly Ser Ala Ala Gly Gly Gly Phe Pro Gln Trp Asn Cys Asn Cys Ala
 35 40 45
 Asn Cys Gln Gly Leu Arg Asp Gly Thr Leu Gln Ala Thr Pro Arg Thr
 50 55 60
 Gln Ser Ser Ile Ile Val Ser Asp Lys Gly Lys Glu Trp Val Leu Cys
 65 70 75 80
 Asn Ala Ser Pro Asp Ile Ser Gln Gln Ile Ala His Thr Pro Glu Leu
 85 90 95
 Asn Lys Lys Glu Val Leu Arg Gly Thr His Ile Gly Gly Ile Ile Leu
 100 105 110
 Thr Asp Ser Gln Ile Asp His Thr Thr Gly Leu Leu Ser Leu Arg Glu
 115 120 125
 Gly Cys Pro His Gln Val Trp Cys Thr Pro Glu Val His Glu Asp Leu
 130 135 140
 Ser Ser Gly Phe Pro Ile Phe Thr Met Leu Arg His Trp Asn Gly Gly
 145 150 155 160
 Leu Ile His His Pro Ile Ala Pro Leu Thr Ala Phe Ser Val Glu Ala
 165 170 175
 Cys Pro Asp Leu Gln Phe Thr Ala Val Pro Ile Ala Ser Asn Ala Pro
 180 185 190
 Pro Tyr Ser Pro Trp Arg Asp His Pro Leu Pro Gly His Asn Val Ala
 195 200 205
 Leu Phe Ile Glu Asn Arg Arg Asn Gly Gln Thr Leu Phe Tyr Ala Pro
 210 215 220
 Gly Leu Gly Glu Pro Asp Asp Ala Ile Leu Pro Trp Leu Lys Lys Ala
 225 230 235 240

Asp Cys Leu Leu Ile Asp Gly Thr Val Trp Gln Asp Asp Glu Leu Gln
 245 250 255
 Ala Thr Gly Val Gly Arg Asn Thr Gly Arg Asp Met Gly His Leu Ala
 260 265 270
 Leu Gly Asp Glu His Gly Met Met Ala Leu Leu Ala Ser Leu Pro Ala
 275 280 285
 Lys Arg Lys Ile Leu Ile His Ile Asn Asn Thr Asn Pro Ile Leu Asn
 290 295 300
 Glu Gln Ser Pro Gln Arg His Ala Leu Ala Gln Gln Gly Ile Glu Val
 305 310 315 320
 Ser Trp Asp Gly Met Asn Ile Thr Leu Gln Asp
 325 330

<210> 10235

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 10235

Arg Arg Ala Leu Pro Leu Pro Arg Trp Ser Gly Phe Tyr Gly Ala Cys
 1 5 10 15
 Cys Ala Cys Ala Ser Pro Pro Val Trp Pro Leu Arg Thr Pro Leu Ala
 20 25 30
 Thr Ser Asn Asp Tyr Phe Ser Gly Glu Val Met Ser Gln Gln Asp Ala
 35 40 45
 Ala Lys Glu Gln Ala Asn Thr Arg Lys Asn Val Arg Val Val Ser Ile
 50 55 60
 Phe Thr Ala Ala Ala Ile Gly Ile Val Gly Val Leu Val Ile Leu Tyr
 65 70 75 80
 Ala Trp Gln Leu Pro Phe Thr Arg His Ala Gln Phe Thr Asp Asn
 85 90 95
 Ala Tyr Val Arg Gly Gln Thr Thr Phe Ile Ser Pro Gln Val Asn Gly
 100 105 110
 Tyr Ile Thr Glu Val His Val Gln Asp Phe Ala Gln Val Lys Lys Gly
 115 120 125
 Glu Leu Leu Leu Gln Ile Asp Asp Arg Ile Tyr Arg Gln Arg Val His
 130 135 140
 Gln Ala Glu Ala Gln Leu Ala Met Lys Ile Ala Ala Leu Asn Asn Asn
 145 150 155 160
 Leu Gln Gln Arg Arg Ser Ala Glu Ala Val Ile Ala Lys Asn Glu Ala
 165 170 175
 Ala Leu Lys Asn Ala Arg Ala Gln Ser Leu Lys Thr Gln Ala Asp Leu
 180 185 190
 Lys Arg Val Lys Glu Leu Thr Ala Asp Gly Ser Leu Ser Ile Arg Glu
 195 200 205
 Arg Asp Ser Ala Leu Ala Ser Ala Ala Gln Gly Ser Ala Asp Ile Asp
 210 215 220
 Gln Ala Lys Ala Thr Leu Glu Met Ser Arg Gln Asp Leu Gln Thr Val
 225 230 235 240
 Ile Val Asn Arg Gly Ser Leu Glu Ala Asp Val Glu Asn Ala Lys Ala
 245 250 255
 Ala Leu Glu Leu Ala Gln Ile Asp Leu Gln Asn Thr Arg Ile Val Ala
 260 265 270
 Pro Arg Asp Gly Gln Leu Gly Gln Ile Ala Val Arg Leu Gly Ala Tyr
 275 280 285
 Val Ala Ala Gly Thr His Leu Thr Thr Leu Val Pro Pro Gln His Trp
 290 295 300
 Val Ile Ala Asn Ile Lys Glu Thr Gln Leu Ala Asn Leu Arg Val Gly
 305 310 315 320
 Gln Pro Val Lys Phe Thr Val Asp Ala Leu Asn Asp Lys Ala Tyr Gln
 325 330 335

Gly Arg Val Glu Ser Ile Ser Pro Ala Thr Gly Val Glu Phe Ser Ala.
 340 345 350
 Ile Thr Pro Asp Asn Ala Thr Gly Asn Phe Val Lys Ile Ala Gln Arg
 355 360 365
 Ile Pro Val Arg Ile Glu Val Leu Gly Glu Pro Glu Ala Tyr Arg Leu
 370 375 380
 Leu Arg Pro Gly Met Ser Val Gln Val Thr Ile Asp Thr Arg Glu Ala
 385 390 395 400
 Lys Gln

<210> 10236

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 10236

Arg Tyr Arg Leu Arg Pro Gly Ser Gly Tyr Gln Ser Ala Val Arg Arg
 1 5 10 15
 Glu Ser Arg Tyr Arg Gln Pro Gly Arg Cys Leu Arg Ser Pro Pro Leu
 20 25 30
 Thr Ala Arg Trp Glu Gly Phe Ser Phe Pro Ala Tyr Phe Val Ser Ser
 35 40 45
 Ala Pro Thr Leu Gln Pro Gly Gly Leu Met Ser Val Ile Ile Asp Thr
 50 55 60
 Phe Ile Ala Pro Pro Cys His Asp Asp Ile Glu Ile Leu Trp Gln Asp
 65 70 75 80
 Glu His Leu Leu Leu Ile Asn Lys Pro Ser Gly Leu Leu Ser Leu Ser
 85 90 95
 Gly Lys Asn Pro Gln Asn Arg Asp Ser Val His His Arg Leu Val Gln
 100 105 110
 Thr Phe Pro Gly Cys Thr Leu Val His Arg Leu Asp Phe Gly Thr Ser
 115 120 125
 Gly Leu Met Val Ile Ala Arg Asn Lys Ala Ile Asn Ala Ala Leu Cys
 130 135 140
 His Gln Phe Ser Gln Arg Ala Val Ser Lys Val Tyr Thr Ala Leu Leu
 145 150 155 160
 Cys Gly His Val Glu Gln Asp Glu Gly Thr Val Asp Ala Pro Ile Ala
 165 170 175
 Lys Asp Gln Ala Leu Phe Pro Leu Met Thr Ile Cys Ala Arg Thr Gly
 180 185 190
 Lys Pro Ala Arg Ser Arg Tyr Arg Val Met Glu Arg Ile Tyr Gln Asp
 195 200 205
 Thr Thr Met Pro Leu Thr Arg Val Glu Leu Thr Pro Glu Thr Gly Arg
 210 215 220
 Thr His Gln Leu Arg Ile His Cys Gln Gln Leu Gly His Pro Ile Leu
 225 230 235 240
 Gly Cys Asp Leu Tyr Gly Gly Leu Glu Trp Pro Gly Ala Glu Glu Thr
 245 250 255
 Pro Arg Leu Met Leu His Ala Ser Val Leu Asn Phe Ile His Pro Leu
 260 265 270
 Ser Gly Glu Thr Ile Asn Ala Cys His Ala Ala Pro Phe
 275 280 285

<210> 10237

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 10237

Lys Val Leu Leu Met Lys Thr Leu Leu Pro Thr Ser Thr Ala Gly Ser

1		5		10		15									
Leu	Pro	Lys	Pro	Thr	Trp	Leu	Ala	Gln	Pro	Glu	Thr	Leu	Trp	Ser	Pro
			20					25					30		
Trp	Lys	Leu	Gln	Asp	Glu	Glu	Leu	Ala	Gly	Lys	Gln	Asp	Ala	Leu	
		35					40				45				
Arg	Leu	Ser	Leu	Asp	Glu	Gln	Ile	Arg	Ala	Gly	Ile	Asp	Ile	Val	Ser
	50					55					60				
Asp	Gly	Glu	Gln	Thr	Arg	Gln	His	Phe	Val	Thr	Thr	Phe	Ile	Glu	His
65					70					75				80	
Leu	Ser	Gly	Val	Asp	Phe	Glu	Asn	Arg	Gln	Thr	Val	Arg	Ile	Arg	Asn
				85					90					95	
Arg	Tyr	Asp	Ala	Ser	Val	Pro	Thr	Val	Val	Asp	Ala	Val	Ala	Arg	Gln
			100					105					110		
Lys	Pro	Val	Phe	Val	Asp	Asp	Ala	Lys	Tyr	Leu	Arg	Gln	Leu	Thr	Asp
		115					120					125			
Lys	Pro	Ile	Lys	Trp	Ala	Leu	Pro	Gly	Pro	Met	Thr	Met	Ile	Asp	Thr
	130					135					140				
Leu	Tyr	Asp	Ala	His	Tyr	Lys	Ser	Arg	Glu	Lys	Leu	Ala	Trp	Glu	Phe
145					150					155					160
Ala	Lys	Ile	Leu	Asn	Gln	Glu	Ala	Arg	Glu	Leu	Glu	Ala	Ala	Gly	Val
				165					170					175	
Asp	Ile	Ile	Gln	Phe	Asp	Glu	Pro	Ala	Phe	Asn	Val	Phe	Phe	Asp	Glu
			180					185					190		
Val	Asn	Asp	Trp	Gly	Ile	Ala	Ala	Leu	Glu	Arg	Ala	Ile	Glu	Gly	Leu
		195					200					205			
Lys	Cys	Glu	Thr	Ala	Val	His	Ile	Cys	Tyr	Gly	Tyr	Gly	Ile	Lys	Ala
	210					215					220				
Asn	Thr	Asp	Trp	Lys	Lys	Thr	Leu	Gly	Ser	Glu	Trp	Arg	Gln	Tyr	Glu
225					230					235					240
Glu	Ala	Phe	Pro	Lys	Leu	Gln	Thr	Ser	Lys	Ile	Asp	Ile	Ile	Ser	Leu
				245					250					255	
Glu	Cys	His	Asn	Ser	Arg	Val	Pro	Met	Asp	Leu	Leu	Glu	Leu	Ile	Arg
			260					265					270		
Gly	Lys	Lys	Val	Met	Val	Gly	Ala	Ile	Asp	Val	Ala	Thr	Gln	Thr	Ile
		275					280					285			
Glu	Thr	Pro	Glu	Glu	Val	Ala	Asp	Thr	Leu	Arg	Lys	Ala	Leu	Gln	Phe
	290					295					300				
Val	Asp	Ala	Asp	Lys	Leu	Tyr	Pro	Ser	Thr	Asn	Cys	Gly	Met	Ala	Pro
305					310					315					320
Leu	Ser	Arg	Gln	Val	Ala	Asn	Gly	Lys	Leu	Lys	Ala	Leu	Ser	Ala	Gly
				325					330					335	
Ala	Asp	Ile	Ile	Arg	Arg	Glu	Leu	Ala	Arg						
			340					345							

<210> 10238

<211> 834

<212> PRT

<213> Enterobacter cloacae

<400> 10238

Arg	Trp	Trp	Arg	Ala	Ser	Arg	Val	Thr	Ser	Asp	Thr	Pro	Leu	Ser	Cys
1				5				10						15	
Arg	Val	Ser	Leu	Arg	Leu	Pro	Gly	Leu	Gln	Leu	Pro	Asp	Arg	Gly	Cys
			20					25					30		
Asp	Ala	Pro	Pro	Leu	Phe	Phe	Asn	Leu	Ala	Arg	Leu	Thr	Asn	Asn	Leu
		35					40					45			
Ala	Asp	Ala	Gly	Lys	Arg	Phe	Ser	Cys	Ala	Pro	Val	Arg	Ile	Thr	Leu
	50					55					60				
Thr	Leu	His	Asn	Lys	His	Asn	Lys	Met	Arg	Ser	Ala	Met	Gly	Ser	Asn
65					70					75				80	
Ser	Ser	Phe	Ser	Ala	Arg	Arg	Thr	Ala	Leu	Ala	Met	Ala	Val	Ala	Leu

				85				90					95		
Cys	Cys	Ala	Trp	Gln	Ser	Pro	Val	Tyr	Ala	His	Gly	Ser	Glu	Ala	His
			100					105					110		
Met	Val	Pro	Met	Asp	Lys	Thr	Leu	Gln	Ala	Phe	Gly	Ala	Asp	Val	Gln
		115					120					125			
Trp	Asp	Asp	Tyr	Ala	Gln	Met	Phe	Thr	Ile	Val	Lys	Asp	Gly	Ala	Phe
	130					135					140				
Val	Lys	Val	Lys	Pro	Gly	Ala	Asn	Thr	Ala	Ile	Val	Asn	Gly	Lys	Pro
145					150					155					160
Leu	Thr	Leu	Gln	Val	Pro	Val	Val	Met	Lys	Asn	Asn	Lys	Ala	Phe	Ile
				165					170					175	
Pro	Glu	Thr	Phe	Ile	Asn	Asp	Val	Phe	Gln	Ser	Gly	Leu	Asp	Gln	Thr
			180					185					190		
Phe	Gln	Val	Glu	Lys	Ser	Pro	His	Pro	Leu	Asn	Ala	Leu	Thr	Ala	Asp
		195					200					205			
Glu	Ile	Asn	Gln	Ala	Val	Ala	Ile	Val	Lys	Ala	Ser	Ala	Asp	Phe	Lys
	210					215					220				
Pro	Asn	Thr	Arg	Phe	Thr	Gln	Ile	Ala	Leu	Ala	Glu	Pro	Glu	Lys	Ala
225					230					235					240
Lys	Val	Trp	Asp	Phe	Val	Leu	Asn	Gly	Thr	Ala	Val	Asp	Ala	Pro	Arg
				245					250					255	
Gln	Ala	Asn	Ile	Ile	Met	Leu	Asp	Gly	Lys	His	Ile	Ile	Glu	Ser	Arg
			260					265					270		
Val	Asp	Leu	Lys	Glu	Lys	Lys	Ile	Leu	Arg	Trp	Glu	Pro	Ile	Lys	Asp
		275					280					285			
Ala	His	Gly	Met	Val	Leu	Leu	Asp	Asp	Phe	Asn	Thr	Val	Gln	Gln	Ile
	290					295					300				
Ile	Asn	Glu	Ser	Pro	Glu	Phe	Ala	Ala	Val	Leu	Lys	Lys	Arg	Gly	Ile
305					310					315					320
Thr	Asp	Pro	Lys	Lys	Val	Ile	Thr	Thr	Pro	Leu	Thr	Val	Gly	Phe	Phe
				325					330					335	
Asp	Gly	Lys	Asp	Gly	Leu	Lys	Gln	Glu	Asp	Arg	Leu	Leu	Lys	Val	Ile
			340					345					350		
Ser	Tyr	Leu	Asp	Val	Gly	Asp	Gly	Asn	Tyr	Trp	Ala	His	Pro	Ile	Glu
		355					360					365			
Asn	Leu	Val	Ala	Val	Val	Asp	Leu	Glu	Gln	Lys	Lys	Ile	Gln	Lys	Ile
		370				375					380				
Glu	Glu	Gly	Pro	Val	Val	Pro	Val	Pro	Leu	Thr	Pro	Arg	Pro	Tyr	Asp
385					390					395					400
Gly	Arg	Asp	Arg	Val	Glu	Thr	Val	Lys	Lys	Pro	Leu	Glu	Ile	Ile	Glu
				405					410					415	
Pro	Glu	Gly	Lys	Asn	Tyr	Thr	Ile	Thr	Gly	Asp	Arg	Val	His	Trp	Gln
			420					425					430		
Asn	Trp	Asp	Phe	His	Leu	Ser	Leu	Asp	Ser	Arg	Val	Gly	Pro	Ile	Ile
		435													

Asp Trp Val Phe His Glu Asn Gly Thr Ile Gly Ile Asp Ala Gly Ala
 580 585 590
 Thr Gly Ile Glu Ala Val Lys Gly Val Gln Thr Lys Thr Met His Asp
 595 600 605
 Ala Thr Ala Lys Asp Asp Thr Arg Tyr Gly Thr Leu Ile Asp His Asn
 610 615 620
 Ile Val Gly Thr Thr His Gln His Ile Tyr Asn Phe Arg Leu Asp Met
 625 630 635 640
 Asp Val Asp Gly Ile Asn Asn Lys Leu Val Ala Met Asp Pro Asp Val
 645 650 655
 Lys Pro Asn Thr Ala Gly Gly Pro Arg Thr Ser Thr Met Gln Val Asn
 660 665 670
 Gln Tyr Asp Ile Asp Thr Glu Gln Ala Ala Gln Lys Phe Asp Pro
 675 680 685
 Gly Thr Ile Arg Leu Leu Ser Asn Thr Ser Lys Glu Asn Arg Met Gly
 690 695 700
 Asn Pro Val Ser Tyr Gln Ile Ile Pro Tyr Ala Gly Gly Thr His Pro
 705 710 715 720
 Val Ala Ser Gly Ala Lys Phe Ala Pro Asp Glu Trp Ile Tyr His Arg
 725 730 735
 Leu Ser Phe Met Asp Lys Gln Leu Trp Val Thr Arg Tyr His Pro Asp
 740 745 750
 Glu Met Tyr Pro Glu Gly Lys Tyr Pro Asn Arg Ser Thr His Asp Thr
 755 760 765
 Gly Leu Gly Gln Tyr Ser Lys Asp Asn Glu Ser Leu Asn Asp Gln Asp
 770 775 780
 Asn Val Ile Trp Met Thr Thr Gly Thr Thr His Val Ala Arg Ala Glu
 785 790 795 800
 Glu Trp Pro Ile Met Pro Thr Glu Trp Val His Thr Leu Leu Lys Pro
 805 810 815
 Trp Asn Phe Phe Asp Glu Thr Pro Thr Leu Gly Lys Lys Lys Glu Gln
 820 825 830
 Lys

<210> 10239

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10239

His Thr Phe Thr Arg Ile Arg Ser Leu His Lys Gln Arg His Ser Leu
 1 5 10 15
 Leu Arg Gly Phe Arg Met Arg Ile Asn Glu Ile Val Arg Ser Leu Ala
 20 25 30
 Leu Ala Gly Cys Phe Ile Ser Thr Ser Ser Ala Trp Ala Ala Glu Ala
 35 40 45
 Pro Lys Asp Ala Ser Ala Ala Thr Gln Gln Ala Asn Asn Ala Leu Phe
 50 55 60
 Asn Gln Leu Pro Phe Ser Asp Asn Thr Asp Phe Thr Asn Ala His Lys
 65 70 75 80
 Gly Phe Ile Ala Pro Leu Pro Gln Glu Ile Ile Lys Gly Glu Gln Gly
 85 90 95
 Asn Thr Val Trp Asp Pro Gln Gln Tyr Ala Phe Ile Lys Glu Gly Asp
 100 105 110
 Lys Ala Pro Asp Ser Val Asn Pro Ser Leu Trp Arg Gln Ser Gln Leu
 115 120 125
 Ile Asn Ile Ser Gly Leu Phe Glu Val Thr Glu Gly Val Tyr Gln Ile
 130 135 140
 Arg Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Lys Glu Gly
 145 150 155 160

Ile	Thr	Val	Val	Asp	Pro	Leu	Val	Ser	Ala	Glu	Thr	Ala	Lys	Val	Gly
				165					170					175	
Met	Asp	Leu	Tyr	Lys	Asn	Arg	Gly	Asn	Lys	Pro	Val	Val	Ala	Val	
			180					185					190		
Ile	Tyr	Thr	His	Ser	His	Val	Asp	His	Tyr	Gly	Gly	Val	Arg	Gly	Val
		195					200					205			
Val	Asp	Glu	Ala	Asp	Val	Lys	Ser	Gly	Lys	Val	Lys	Val	Tyr	Ala	Pro
	210					215					220				
Ala	Gly	Phe	Met	Glu	Ala	Ala	Val	Ala	Glu	Asn	Ile	Met	Ala	Gly	Asn
225					230					235					240
Val	Met	Ser	Arg	Arg	Ala	Ser	Tyr	Met	Tyr	Gly	Asn	Leu	Leu	Lys	Pro
				245					250					255	
Asp	Ala	Lys	Gly	Gln	Val	Gly	Ala	Gly	Phe	Gly	Thr	Thr	Thr	Ser	Ala
			260					265					270		
Gly	Thr	Val	Thr	Leu	Ile	Ala	Pro	Thr	Asn	Ile	Ile	Glu	Lys	Asp	Gly
		275					280					285			
Gln	Lys	Glu	Val	Ile	Asp	Gly	Leu	Thr	Tyr	Asp	Phe	Met	Leu	Ala	Pro
	290					295					300				
Gly	Ser	Glu	Ala	Pro	Ser	Glu	Met	Leu	Trp	Tyr	Ile	Glu	Glu	Lys	Lys
305					310					315					320
Leu	Ile	Glu	Ser	Ala	Glu	Asp	Val	Thr	His	Thr	Leu	His	Asn	Thr	Tyr
				325					330					335	
Ser	Leu	Arg	Gly	Ala	Lys	Ile	Arg	Glu	Pro	Leu	Pro	Trp	Ser	Lys	Tyr
			340					345					350		
Ile	Asn	Gln	Ala	Ile	Val	Arg	Trp	Gly	Asp	Lys	Ala	Glu	Val	Ile	Met
		355					360					365			
Ala	Gln	His	His	Trp	Pro	Thr	Trp	Gly	Asn	Glu	Asn	Val	Val	Asn	Leu
	370					375					380				
Leu	Lys	Ser	Gln	Arg	Asp	Leu	Tyr	Arg	Tyr	Ile	Asn	Asp	Gln	Thr	Leu
385					390					395					400
Arg	Met	Ala	Asn	Glu	Gly	Leu	Thr	Arg	Asp	Glu	Ile	Ala	Ala	Asn	Phe
				405					410					415	
Lys	Leu	Pro	Asn	Ser	Leu	Ala	Asn	Thr	Trp	Ala	Asn	Arg	Gly	Tyr	Tyr
			420					425					430		
Gly	Ser	Val	Ser	His	Asp	Val	Lys	Ala	Thr	Tyr	Val	Leu	Tyr	Leu	Gly
		435					440					445			
Trp	Phe	Asp	Gly	Asn	Pro	Ala	Thr	Leu	Asp	Glu	Leu	Pro	Pro	Glu	Glu
	450					455					460				
Ala	Ala	Lys	Lys	Phe	Val	Glu	Tyr	Met	Gly	Gly	Ala	Asp	Ala	Ile	Leu
465					470					475					480
Ser	Lys	Ala	Lys	Thr	Asp	Phe	Asp	Gln	Gly	Asn	Tyr	Arg	Trp	Val	Ala
				485					490					495	
Gln	Val	Val	Ser	Lys	Val	Val	Phe	Ala	Asp	Pro	Asn	Asn	Gln	Ala	Ala
			500					505					510		
Arg	Asn	Leu	Glu	Ala	Asp	Ala	Leu	Glu	Gln	Leu	Gly	Tyr	Gln	Ala	Glu
		515					520					525			
Ser	Gly	Pro	Trp	Arg	Asn	Phe	Tyr	Leu	Thr	Gly	Ala	Gln	Glu	Leu	Arg
	530					535					540				
Asn	Gly	Val	Val	Lys	Gly	Pro	Thr	Pro	Asn	Thr	Ala	Ser	Pro	Asp	Thr
545					550					555					560
Val	Arg	Ala	Met	Thr	Pro	Glu	Met	Phe	Phe	Asp	Tyr	Leu	Ala	Val	His
				565					570					575	
Ile	Asn	Gly	Glu	Lys	Ala	Ala	Asp	Ala	Lys	Ser	Val	Phe	Asn	Ile	Asp
			580					585					590		
Leu	Gly	Ser	Asp	Gly	Gly	Lys	Tyr	Lys	Leu	Glu	Leu	Glu	Asn	Gly	Val
		595					600					605			
Leu	Asn	His	Thr	Ala	Asn	Ala	Glu	Ala	Lys	Asp	Ala	Asp	Ala	Thr	Val
	610					615					620				
Thr	Leu	Asn	Arg	Asp	Thr	Leu	Asn	Lys	Ile	Ile	Leu	Lys	Glu	Val	Thr
625					630					635					640
Leu	Arg	Gln	Ala	Gln	Asp	Asn	Gly	Asp	Ile	Lys	Val	Thr	Gly	Asp	Ala

				645					650					655			
Ala	Lys	Leu	Asp	Ala	Met	Leu	Gly	Tyr	Met	Asp	Lys	Phe	Glu	Phe	Trp		
			660					665					670				
Phe	Asn	Ile	Val	Thr	Pro												
			675														

<210> 10240

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 10240

Arg	Gln	His	Ser	Arg	Ala	Glu	Val	Pro	Pro	Ala	Gln	Gly	Lys	Phe	Ser		
1			5					10						15			
Ser	Met	Glu	Lys	Arg	His	Pro	Ala	Thr	Pro	Glu	Pro	Ala	Thr	Trp	Pro		
			20					25					30				
Thr	Arg	Lys	Ser	Met	Val	Val	His	Gly	Leu	Ala	Val	Asn	Leu	Pro	Trp		
			35				40					45					
Leu	Ala	Phe	Val	Asn	Ala	Ser	Phe	Ala	Leu	Met	Val	Leu	Leu	Arg	Asn		
	50					55					60						
Ser	Leu	Phe	Gly	His	Ile	Asp	Ala	Leu	Leu	His	Ile	Ser	Pro	Pro	Leu		
65				70						75					80		
Arg	Gln	Met	Ile	Asp	Ala	Ser	Met	Leu	Gly	Val	Val	Ile	Leu	Ser	Val		
			85					90						95			
Ala	Leu	Val	Ile	Met	Ala	Trp	Arg	His	Ile	Arg	Gly	Val	Ser	Ala	Val		
			100				105						110				
Leu	Phe	Met	Cys	Ser	Leu	Leu	Trp	Ser	Ile	Ser	Cys	Tyr	Trp	Phe	Ile		
		115					120					125					
Asn	Val	Leu	His	Leu	Pro	His	Pro	Trp	Pro	Ile	Phe	Val	Thr	Leu	Leu		
	130					135					140						
Met	Ala	Gly	Met	Thr	Ala	Leu	Tyr	Phe	His	Pro	Val	Ala	Leu	Leu	Cys		
145					150					155					160		
Phe	Thr	Val	Pro	Leu	Trp	Ile	Ser	Leu	Pro	Val	Ala	Ser	Met	Leu	Leu		
			165					170						175			
Asn	Gln	Glu	Ile	Asn	Tyr	Arg	Phe	Ala	Gly	Leu	Trp	Val	Val	Phe	Thr		
			180				185						190				
Phe	Ile	Leu	Val	Cys	Gly	Arg	Tyr	Ile	Leu	Leu	Ser	Trp	Phe	Glu	Glu		
	195						200					205					
Ala	Trp	Arg	Arg	Asn	Gln	Gln	Asn	Gln	Arg	Leu	Ile	Ser	Arg	Leu	Asp		
	210					215					220						
Ala	Leu	Ala	His	Gln	Asp	Pro	Leu	Thr	Lys	Thr	Ala	Asn	Arg	Arg	Ala		
225				230						235					240		
Met	Glu	Leu	Val	Leu	Glu	Asn	Ala	Val	Glu	Gln	Gly	Lys	Arg	Phe	Ala		
			245					250						255			
Val	Leu	Met	Leu	Asp	Val	Asp	Tyr	Phe	Lys	Leu	Tyr	Asn	Asp	Thr	Tyr		
		260					265						270				
Gly	His	Gln	Ala	Gly	Asp	Ala	Cys	Leu	Ala	Arg	Val	Ala	Glu	Val	Leu		
		275					280					285					
Asn	Thr	Ser	Val	Arg	Thr	Pro	Glu	Asp	Val	Val	Ser	Arg	Tyr	Gly	Gly		
	290					295					300						
Glu	Glu	Phe	Val	Val	Ile	Leu	Phe	Asp	Cys	Glu	Glu	Ser	Val	Ala	Glu		
305					310					315					320		
Lys	Val	Ala	Ala	Arg	Ile	Gln	Ala	Gly	Leu	Arg	Thr	Ala	Ala	Ile	Ala		
			325					330						335			
His	Ser	Ala	Ser	Lys	Val	Ser	Glu	Cys	Val	Thr	Val	Ser	Met	Gly	Ile		
		340						345					350				
Ala	Gly	Tyr	Thr	Ala	Gly	Leu	Ala	Gly	Pro	Glu	Ile	Ile	Ala	Arg	Ala		
	355					360					365						
Asp	Ala	Ala	Leu	Tyr	Arg	Ala	Lys	Glu	Ala	Gly	Arg	Asp	Arg	Trp	Ser		
	370					375					380						

Arg

385

<210> 10241

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 10241

Phe	Arg	Lys	Leu	Pro	Val	Ile	Ser	Pro	Ser	Ile	Thr	His	Ala	Gly	Ser
1				5					10					15	
Ala	Ser	Phe	Ser	Thr	Met	Ala	Gly	Phe	Leu	Pro	Pro	Ser	Ser	Ser	Val
			20					25					30		
Thr	Pro	Val	Ser	Val	Ser	Ala	Ala	Thr	Arg	Ala	Ile	Cys	Leu	Pro	Val
		35					40					45			
Ala	Val	Glu	Pro	Val	Lys	Leu	Thr	Leu	Ala	Met	Arg	Gly	Cys	Glu	Val
	50					55					60				
Ser	Ala	Ala	Pro	Gln	Thr	Ala	Pro	Leu	Pro	Val	Thr	Thr	Leu	Asn	Thr
65					70					75				80	
Pro	Ser	Gly	Ile	Pro	Ala	Ser	Leu	Ala	Ser	Ser	Ala	Thr	Arg	Asn	Arg
				85					90					95	
Val	Ser	Gly	Val	Val	Ser	Glu	Gly	Leu	Ile	Thr	Met	Glu	Gln	Pro	Ala
			100					105					110		
Ala	Ser	Ala	Gly	Ile	Thr	Phe	His	Met	Pro	Ile	Ile	Ser	Gly	Lys	Phe
		115					120					125			
His	Gly	Thr	Ile	Pro	Ala	Thr	Thr	Pro	Thr	Gly	Ser	Leu	Arg	Val	His
	130					135					140				
Ala															
145															

<210> 10242

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 10242

Met	Gln	Gln	Cys	Glu	Asn	Ser	Asp	Gly	Ala	Ala	Arg	Thr	Ser	Met	Ala
1				5					10					15	
Cys	Ala	Ser	Glu	Gln	Asp	Asn	Phe	Gln	Gln	Trp	Leu	Ala	Gln	Ile	Asn
			20					25					30		
Gln	Val	Cys	Gly	Arg	Phe	Ala	Ala	Arg	Pro	Leu	Glu	Gly	Ala	Phe	Leu
		35					40					45			
Gly	Glu	Leu	Glu	Thr	Ser	Tyr	Thr	Gln	Ser	Leu	Lys	Leu	Ser	Thr	Val
	50					55					60				
Thr	Ala	Ala	Gly	Val	Asn	Leu	Phe	Arg	Thr	Arg	Gln	Glu	Ile	Lys	Asn
65					70					75				80	
Gly	Asn	Asp	Ala	Trp	Phe	Tyr	Thr	Val	Phe	Gln	Leu	Glu	Gly	Ser	Ala
				85					90					95	
Gly	Ile	Glu	Gln	Asp	Asn	Gln	Arg	Ala	Met	Leu	Lys	Ala	Gly	Asp	Ile
			100					105					110		
Thr	Leu	Ile	Asp	Ala	Ser	Arg	Pro	Cys	Ser	Ile	Tyr	Trp	Gln	Glu	Arg
		115					120					125			
Ser	Arg	Gln	Ile	Ser	Leu	Leu	Leu	Pro	Arg	Gln	Ile	Ile	Glu	Gln	His
	130					135					140				
Ala	Arg	Phe	Gln	Glu	Val	Arg	Cys	Ala	Leu	Pro	Leu	Ser	Ser	Ser	Leu
145					150					155					160
Pro	Thr	Val	Gln	Leu	Ser	Tyr	Arg	Leu	Leu	Gln	Glu	Ser	Met	Gly	Asn
				165					170					175	
Ala	Asp	Leu	Ser	Ala	Ser	Glu	Ser	Glu	Ala	Ala	Leu	Glu	Ala	Met	Val
			180					185					190		
Cys	Leu	Leu	Arg	Pro	Ala	Phe	Gln	Gln	Gln	His	Glu	Val	Leu	Pro	Arg
		195					200					205			

Lys Glu Arg Gln Phe Arg His Val Leu Ser Leu Ile Asp Asp His Ile
 210 215 220
 Gln Ser Glu Ala Leu Arg Pro Glu Trp Ile Ala Ser Glu Ser Gly Met
 225 230 235 240
 Ser Val Arg Ser Leu Tyr Arg Met Phe Ala Gly Lys Gly Leu Val Val
 245 250 255
 Ala Gln Tyr Ile Lys Asn Arg Arg Leu Asp Leu Cys Ala Gln Ala Leu
 260 265 270
 Arg Ser Ile Ser Asp Asp Glu Lys Leu Ala Gly Ile Gly Tyr Ser Trp
 275 280 285
 Gly Phe Thr Asp His Ser His Phe Ser Thr Ala Phe Lys Gln Arg Phe
 290 295 300
 Gly Val Ser Pro Gly Glu Tyr Arg Lys Arg Tyr Arg
 305 310 315

<210> 10243

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 10243

Arg Gly Ser Lys Ile Thr Gly Glu Ser Leu Met Lys Leu Ala Val Tyr
 1 5 10 15
 Ser Thr Lys Gln Tyr Asp Lys Lys Tyr Leu Gln His Val Asn Glu Thr
 20 25 30
 Tyr Gly Phe Asp Leu Glu Phe Phe Asp Phe Leu Leu Thr Glu Lys Thr
 35 40 45
 Ala Lys Thr Ala His Gly Cys Glu Gly Val Cys Ile Phe Val Asn Asp
 50 55 60
 Asp Gly Ser Arg Pro Val Leu Glu Glu Leu Lys Lys Gln Gly Val Lys
 65 70 75 80
 Tyr Ile Ala Leu Arg Cys Ala Gly Phe Asn Asn Val Asp Leu Asp Ala
 85 90 95
 Ala Lys Glu Leu Gly Leu Lys Val Val Arg Val Pro Ala Tyr Ser Pro
 100 105 110
 Glu Ala Val Ala Glu His Ala Val Gly Met Met Met Ser Leu Asn Arg
 115 120 125
 Arg Ile His Arg Ala Tyr Gln Arg Thr Arg Asp Ala Asn Phe Ser Leu
 130 135 140
 Glu Gly Leu Thr Gly Phe Thr Met Tyr Gly Lys Thr Ala Gly Val Ile
 145 150 155 160
 Gly Thr Gly Lys Ile Gly Val Ala Ala Leu Arg Ile Leu Lys Gly Phe
 165 170 175
 Gly Met Arg Leu Leu Ala Phe Asp Pro Tyr Pro Ser Ala Ala Ala Leu
 180 185 190
 Glu Leu Gly Val Glu Tyr Val Asp Leu Lys Thr Leu Phe Ser Gln Ser
 195 200 205
 Asp Val Ile Ser Leu His Cys Pro Leu Thr Pro Glu Asn Tyr His Leu
 210 215 220
 Leu Asn Gln Ser Ala Phe Asp Gln Met Lys Asp Gly Val Met Ile Ile
 225 230 235 240
 Asn Thr Ser Arg Gly Gly Leu Ile Asp Ser Gln Ala Ala Ile Glu Ala
 245 250 255
 Leu Lys Thr Gln Lys Ile Gly Ala Leu Gly Met Asp Val Tyr Glu Asn
 260 265 270
 Glu Arg Asp Leu Phe Phe Glu Asp Lys Ser Asn Asp Val Ile Gln Asp
 275 280 285
 Asp Val Phe Arg Arg Leu Ser Ala Cys His Asn Val Leu Phe Thr Gly
 290 295 300
 His Gln Ala Phe Leu Thr Ala Glu Ala Leu Ile Ser Ile Ser Glu Thr
 305 310 315 320

Thr Leu Gly Asn Leu Gln Gln Leu Asp Lys Gly Glu Ala Cys Pro Asn
 325 330 335
 Ala Ile Val
 340

<210> 10244
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 10244
 Asn Met Ala Phe Val Thr Thr Lys Asp Gly Val Ser Ile Tyr Tyr Lys
 1 5 10 15
 Asp Trp Gly Pro Lys Asp Ala Gln Pro Ile Val Phe His His Gly Trp
 20 25 30
 Pro Leu Ser Ala Asp Asp Trp Asp Asn Gln Met Leu Phe Phe Leu Ala
 35 40 45
 Glu Gly Phe Arg Val Ile Ala Leu Asp Arg Arg Gly His Gly Arg Ser
 50 55 60
 Asp Gln Val Ser Glu Gly His Asp Met Asp His Tyr Ala Ser Asp Ala
 65 70 75 80
 Ser Ala Val Val Glu Ser Leu Asp Leu Arg Asn Ala Val His Val Gly
 85 90 95
 His Ser Thr Gly Gly Gly Gln Val Ala Arg Tyr Val Ala Lys Tyr Gly
 100 105 110
 Gln Pro Gln Gly Arg Val Ala Lys Ala Val Leu Val Ser Ala Val Pro
 115 120 125
 Pro Leu Met Val Lys Ser Asp Thr Asn Pro Gly Gly Thr Pro Ile Glu
 130 135 140
 Val Phe Asp Gly Phe Arg Gln Ala Leu Ala Asn Arg Ala Gln Phe
 145 150 155 160
 Tyr Leu Asp Val Ala Ser Gly Pro Phe Tyr Gly Phe Asn Arg Asp Gly
 165 170 175
 Ala Glu Val Ser Gln Gly Thr Ile Gln Asn Trp Trp Arg Gln Gly Met
 180 185 190
 Ile Gly Ser Ala Lys Ala His Tyr Glu Gly Ile Lys Ala Phe Ser Glu
 195 200 205
 Thr Asp Gln Thr Asp Asp Leu Lys Ala Ile Thr Val Pro Val Leu Val
 210 215 220
 Leu Gln Gly Asp Asp Asp Gln Val Val Pro Tyr Lys Asn Ala Ala Leu
 225 230 235 240
 Leu Gln Asp Lys Leu Leu Ala Asn Ser Glu Leu Lys Ile Tyr Pro Gly
 245 250 255
 Phe Pro His Gly Met His Thr Thr His Ala Asp Thr Ile Asn Ala Asp
 260 265 270
 Ile Leu Thr Phe Ile Arg Ser
 275 280

<210> 10245
 <211> 232
 <212> PRT
 <213> Enterobacter cloacae

<400> 10245
 Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Ala Tyr Leu Ala Asp Glu Gly Glu Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Lys Gln Leu His Leu Asp Pro Val Phe

50	55	60
Trp Gly Tyr Ala Pro Gly	Trp Trp Asp Lys Ala	Pro Leu Ile Asn Ala
65	70	75
Arg Val Glu Thr Ala	Thr Ser Arg Met Phe	Lys Pro Leu Trp Gln
85	90	95
His Gly Arg Ala Ile Cys	Phe Ala Asp Gly Trp Phe	Glu Trp Lys Lys
100	105	110
Glu Gly Asp Lys Lys Gln	Pro Tyr Phe Ile His	Arg Ala Asp Gly Gln
115	120	125
Pro Ile Phe Met Ala Ala	Ile Gly Ser Thr Pro	Phe Glu Arg Gly Asp
130	135	140
Glu Ala Glu Gly Phe Leu	Ile Val Thr Ser Ala	Ala Asp Lys Gly Leu
145	150	155
Ile Asp Ile His Asp Arg	Arg Pro Leu Val Leu	Ser Pro Glu Ala Ala
165	170	175
Arg Glu Trp Met Arg Gln	Asp Val Gly Gly Lys	Lys Ala Glu Glu Ile
180	185	190
Ile Ala Asp Gly Thr Val	Pro Ala Asp Glu Phe	Ile Trp His Ala Val
195	200	205
Thr Arg Ala Val Gly Asn	Val Lys Asn Gln Gly	Ala Glu Leu Ile Glu
210	215	220
Val Ala His Lys Met Glu	Lys	
225	230	

<210> 10246

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10246

Trp Glu Ala Gly Arg Tyr	Arg Tyr Lys Leu Arg	Asn His Phe Gln Val
1	5	10
Glu Gly Met Ile Leu Asn	Asp Ile Ala Ile	Ile Ala Leu Ala Gly Phe
20	25	30
Thr Thr Gly Ile Thr Thr	Val Leu Phe Gly Phe	Gly Gly Gly Phe Val
35	40	45
Val Val Pro Phe Val Tyr	Gln Leu Met Leu Arg	Gln Thr Glu Leu Ala
50	55	60
Leu Asn Ala Met His Ile	Ala Val Ala Thr Ser	Thr Ser Val Met Ile
65	70	75
Phe Asn Ala Gly Trp Val	Thr Tyr Arg Asn Trp	Arg Ala Cys Glu Leu
85	90	95
Ser Ser Gln Met Leu Phe	Pro Leu Leu Trp Phe	Ile Ala Ile Gly Ala
100	105	110
Ile Val Gly Ser Cys Leu	Ala Gly Ile Phe Ser	Glu Ser Val Val Arg
115	120	125
Ala Leu Phe Ile Phe Tyr	Met Leu Thr Thr Ile	Ser Asp Cys Leu Leu
130	135	140
Arg Lys Gly Phe Leu Gly	Gly Ser Ser Leu Arg	Arg Leu Ser Phe Pro
145	150	155
Val Val Thr Gly Gly Gly	Val Thr Ile Gly Met	Ile Ala Ala Leu Leu
165	170	175
Gly Val Gly Gly Ser Val	Met Thr Val Pro	Leu Leu Arg Arg His Gly
180	185	190
Tyr Ala Met Arg Glu Cys	Ile Ser Ala Ser Asn	Pro Leu Ser Leu Pro
195	200	205
Val Ala Leu Cys Gly Ala	Val Thr Tyr Ala Val	Ile Gly Trp Gln Thr
210	215	220
Ile Pro Val Lys Gly Phe	Leu Gly Phe Ile Asn	Leu Lys Ile Leu Gly
225	230	235
Met Leu Val Leu Thr Gly	Trp Ala Gly Ile Val	Phe Ser Arg Arg Val

				245					250				255			
Ile	Pro	Ala	Val	Pro	Asp	Ile	Trp	His	Ala	Arg	Ile	Tyr	Val	Met	Leu	
			260					265					270			
Leu	Phe	Leu	Val	Leu	Leu	Ala	Met	Leu	Phe	Gln						
		275					280									

<210> 10247

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10247

His	Pro	Ala	Leu	Ser	Arg	Ser	Ser	His	Trp	Pro	His	Gly	Ser	Thr	Val	
1				5					10					15		
Met	Ser	Thr	Pro	Cys	Asp	Val	Lys	Leu	Arg	Pro	Leu	Glu	Arg	Glu	Asp	
			20					25					30			
Leu	Arg	Phe	Val	His	Gln	Leu	Asp	Asn	Asn	Ala	Ser	Val	Met	Arg	Tyr	
		35					40					45				
Trp	Phe	Glu	Glu	Pro	Tyr	Glu	Ala	Phe	Val	Glu	Leu	Ser	Asp	Leu	Tyr	
	50					55					60					
Asp	Lys	His	Ile	His	Asp	Gln	Ser	Glu	Arg	Arg	Phe	Val	Val	Glu	Cys	
65					70					75					80	
Glu	Gly	Glu	Lys	Ala	Gly	Leu	Val	Glu	Leu	Val	Glu	Ile	Asn	His	Val	
				85					90					95		
His	Arg	Arg	Ala	Glu	Phe	Gln	Ile	Ile	Ile	Ser	Pro	Glu	His	Gln	Gly	
			100					105					110			
Lys	Gly	Leu	Ala	Ser	Arg	Ala	Ala	Lys	Leu	Ala	Met	Asp	Tyr	Gly	Phe	
		115					120					125				
Asn	Val	Leu	Asn	Leu	Tyr	Lys	Leu	Tyr	Leu	Ile	Val	Asp	Lys	Glu	Asn	
		130				135					140					
Glu	Lys	Ala	Ile	His	Ile	Tyr	Arg	Lys	Leu	Gly	Phe	Met	Val	Glu	Gly	
					150					155					160	
Glu	Leu	Ile	His	Glu	Phe	Phe	Ile	Asn	Gly	Glu	Tyr	Arg	Asn	Thr	Ile	
				165					170					175		
Arg	Met	Cys	Ile	Phe	Gln	His	Gln	His	Leu	Ala	Gly	His	Lys	Ser	Ser	
			180					185					190			
Ser	Ala	Ser	Leu	Leu	Lys	Pro	Thr	Ala	Gln							
		195					200									

<210> 10248

<211> 775

<212> PRT

<213> Enterobacter cloacae

<400> 10248

Val	Met	Ser	Glu	Val	Glu	His	His	Gly	Gly	Ile	Ser	Arg	Arg	Thr	Leu	
1				5					10					15		
Val	Lys	Ser	Thr	Ala	Ile	Gly	Ser	Leu	Ala	Leu	Ala	Ala	Gly	Gly	Ile	
			20					25					30			
Ala	Leu	Pro	Phe	Gly	Leu	Lys	Ser	Ala	Ala	Ala	Ala	Val	Gln	Ser	Ala	
		35					40					45				
Ile	Gln	Pro	Ala	Glu	Asp	Lys	Val	Val	Trp	Gly	Ala	Cys	Ser	Val	Asn	
	50					55					60					
Cys	Gly	Ser	Arg	Cys	Ala	Leu	Arg	Leu	His	Val	Arg	Asp	Asp	Glu	Val	
65					70					75					80	
Tyr	Trp	Val	Glu	Thr	Asp	Asn	Thr	Gly	Glu	Asp	Val	Tyr	Gly	Asn	His	
				85					90					95		
Gln	Val	Arg	Ala	Cys	Leu	Arg	Gly	Arg	Ser	Ile	Arg	Arg	Arg	Ile	Asn	
			100				105						110			
His	Pro	Asp	Arg	Leu	Asn	Tyr	Pro	Met	Lys	Arg	Val	Gly	Lys	Arg	Gly	
			115				120						125			

Glu	Gly	Lys	Phe	Glu	Arg	Ile	Thr	Trp	Glu	Glu	Ala	Leu	Asp	Thr	Ile
130						135					140				
Ala	Ala	Ser	Leu	Lys	Ser	Val	Val	Glu	Lys	Tyr	Gly	Asn	Glu	Ala	Val
145						150					155				160
Tyr	Ile	Asn	Tyr	Ser	Ser	Gly	Ile	Val	Gly	Gly	Asn	Ile	Thr	Arg	Ser
				165					170					175	
Ser	Pro	Tyr	Ala	Ser	Leu	Val	Ala	Arg	Leu	Met	Asn	Cys	Tyr	Gly	Gly
			180					185					190		
Phe	Leu	Ser	His	Tyr	Gly	Thr	Tyr	Ser	Thr	Ala	Gln	Ile	Ala	Cys	Ala
		195					200					205			
Met	Pro	Tyr	Thr	Tyr	Gly	Ser	Asn	Asp	Gly	Asn	Ser	Thr	Ser	Asp	Ile
	210					215					220				
Glu	Asn	Thr	Lys	Leu	Val	Val	Met	Phe	Gly	Asn	Asn	Pro	Ala	Glu	Thr
225					230					235					240
Arg	Met	Ser	Gly	Gly	Gly	Ile	Thr	Tyr	Phe	Leu	Glu	Gln	Ala	Arg	Glu
			245						250					255	
Arg	Ser	Asn	Ala	Arg	Met	Ile	Val	Ile	Asp	Pro	Arg	Tyr	Thr	Asp	Thr
			260						265					270	
Ala	Ala	Gly	Arg	Glu	Asp	Glu	Trp	Ile	Pro	Ile	Arg	Pro	Gly	Thr	Asp
		275					280					285			
Ala	Ala	Leu	Val	Ala	Gly	Ile	Ala	Trp	Val	Leu	Ile	Asn	Glu	Asn	Leu
		290				295					300				
Val	Asp	Gln	Pro	Phe	Leu	Asp	Lys	Tyr	Cys	Val	Gly	Tyr	Asp	Glu	Lys
305					310					315					320
Thr	Leu	Pro	Glu	Gly	Ala	Pro	Ala	Asn	Gly	His	Tyr	Lys	Ala	Tyr	Ile
				325					330					335	
Leu	Gly	Gln	Gly	Asp	Asp	Lys	Thr	Ala	Lys	Thr	Pro	Asp	Trp	Ala	Ser
			340					345					350		
Arg	Ile	Thr	Gly	Ile	Pro	Ala	Glu	Arg	Ile	Ile	Lys	Leu	Ala	Arg	Glu
		355					360					365			
Ile	Gly	Ser	Ala	Lys	Pro	Ala	Tyr	Ile	Cys	Gln	Gly	Trp	Gly	Pro	Gln
	370					375					380				
Arg	Gln	Ala	Asn	Gly	Glu	Gln	Thr	Ser	Arg	Ala	Ile	Ala	Met	Leu	Pro
385					390					395					400
Ile	Leu	Thr	Gly	Asn	Val	Gly	Ile	Asn	Gly	Gly	Asn	Ser	Gly	Ala	Arg
			405						410					415	
Glu	Ser	Thr	Tyr	Thr	Ile	Thr	Ile	Glu	Arg	Met	Pro	Leu	Pro	Glu	Asn
			420					425					430		
Pro	Val	Lys	Thr	Gln	Ile	Ser	Cys	Phe	Ser	Trp	Thr	Asp	Ala	Ile	Val
		435					440					445			
Arg	Gly	Pro	Glu	Met	Thr	Ala	Leu	Arg	Asp	Gly	Val	Arg	Gly	Lys	Asp
		450				455					460				
Lys	Leu	Asp	Val	Pro	Ile	Lys	Phe	Ile	Trp	Asn	Tyr	Ala	Gly	Asn	Thr
465					470					475					480
Ile	Ile	Asn	Gln	His	Ser	Asp	Ile	Asn	Lys	Thr	His	Asp	Ile	Leu	Gln
			485						490					495	
Asp	Glu	Ser	Lys	Cys	Glu	Thr	Ile	Val	Val	Ile	Asp	Asn	Phe	Met	Thr
			500					505					510		
Ser	Ser	Ala	Lys	Tyr	Ala	Asp	Ile	Val	Leu	Pro	Asp	Leu	Met	Thr	Val
		515					520					525			
Glu	Gln	Glu	Asp	Ile	Ile	Pro	Asn	Asp	Tyr	Ala	Gly	Asn	Met	Gly	Tyr
	530					535					540				
Leu	Ile	Phe	Leu	Gln	Pro	Val	Thr	Ala	Pro	Lys	Phe	Glu	Arg	Lys	Pro
545					550					555					560
Ile	Tyr	Trp	Ile	Met	Ser	Glu	Val	Ala	Lys	Arg	Leu	Gly	Pro	Asp	Ile
			565						570					575	
His	Gln	Lys	Phe	Thr	Glu	Gly	Arg	Thr	Gln	Glu	Gln	Trp	Leu	Arg	Tyr
			580					585					590		
Leu	Tyr	Asp	Lys	Met	Val	Ala	Lys	Asp	Pro	Leu	Leu	Pro	Ser	Tyr	Asp
		595					600					605			
Ala	Leu	Lys	Lys	Met	Gly	Ile	Tyr	Lys	Arg	Lys	Asp	Pro	Asn	Gly	His

610		615		620
Phe Val Ala Tyr Lys Lys Phe Arg Asp Asp Pro Asp Ala Asn Pro Leu				
625		630		635
Lys Thr Pro Ser Gly Lys Ile Glu Ile Tyr Ser Ser Lys Leu Ala Asp				
	645		650	655
Ile Ala Ala Thr Trp Glu Leu Gln Lys Asp Glu Thr Ile Thr Pro Leu				
	660		665	670
Pro Val Tyr Thr Ser Thr Phe Glu Gly Trp Asp Ala Pro Glu Arg Ser				
	675		680	685
Lys Phe Pro Leu Gln Leu Phe Gly Phe His Phe Lys Ala Arg Thr His				
	690		695	700
Ser Ser Tyr Gly Asn Val Asp Val Leu Gln Ala Ala Cys Arg Gln Glu				
705		710		715
Val Trp Leu Asn Pro Val Asp Ala Glu Gln Arg Gly Ile Lys Asn Gly				
	725		730	735
Asp Met Val Arg Val Phe Asn Asp Arg Gly Glu Val Arg Ile Ala Ala				
	740		745	750
Lys Val Thr Pro Arg Ile Met Pro Gly Val Ser Ala Met Gly Gln Gly				
	755		760	765
Ala Gly Met Thr Pro Thr				
770		775		

<210> 10249

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10249

Pro Met Thr Thr Gln Tyr Gly Phe Phe Ile Asp Ser Ser Arg Cys Thr				
1	5		10	15
Gly Cys Lys Thr Cys Glu Leu Ala Cys Lys Asp Tyr Lys Asp Leu Thr				
	20		25	30
Pro Asp Val Ser Phe Arg Arg Ile Tyr Glu Tyr Ala Gly Gly Asp Trp				
	35		40	45
Gln Glu Asp Asn Gly Val Trp His Gln Asn Val Phe Ala Tyr Tyr Leu				
	50		55	60
Ser Ile Ala Cys Asn His Cys Glu Asp Pro Ala Cys Thr Lys Val Cys				
65	70		75	80
Pro Ser Gly Ala Met His Lys Arg Asp Asp Gly Phe Val Val Val Asp				
	85		90	95
Glu Asp Val Cys Ile Gly Cys Arg Tyr Cys His Met Ala Cys Pro Tyr				
	100		105	110
Gly Ala Pro Gln Tyr Asn Ala Ala Lys Gly His Met Thr Lys Cys Asp				
	115		120	125
Gly Cys His Ser Arg Val Ala Asp Gly Lys Lys Pro Ile Cys Val Glu				
	130		135	140
Ser Cys Pro Leu Arg Ala Leu Asp Phe Gly Pro Ile Glu Glu Leu Arg				
145	150		155	160
Lys Lys His Gly Gln Leu Ala Ala Val Ala Pro Leu Pro Ser Ala His				
	165		170	175
Phe Thr Lys Pro Ser Ile Val Ile Lys Pro Asn Ala Asn Ser Arg Pro				
	180		185	190
Thr Gly Asp Thr Thr Gly Tyr Leu Ala Asn Pro Lys Glu Val				
	195		200	205

<210> 10250

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10250

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Thr Asp Trp Pro Trp Ala Ile Leu Trp Ser Ala Tyr Asp Arg Arg Val
1      5      10
Ser Asn Cys Arg Leu Thr Gln Val Arg Gly Ala Thr Arg Ala Gln Val
20      25      30
Arg Lys Val Val Met Asn Asp Val Ser His Arg Glu Ser Phe Ala Phe
35      40      45
Ser Ala Arg Val Leu Gly Ala Leu Phe Tyr Phe Ala Pro Asp Ser Glu
50      55      60
Gln Ile Ala Pro Leu Val Ser Ala Leu Thr Ala Gly Asp Trp Val Gln
65      70      75
Asp Trp Pro Leu Ala Glu Glu Asn Leu Leu Pro Val Ala Ser Met Phe
85      90      95
Lys Thr Pro Ser Asp Glu Ala Leu Lys Asp Ala Trp Gln Arg Leu Phe
100     105     110
Ile Gly Pro Tyr Ala Leu Pro Ala Pro Pro Trp Gly Ser Val Trp Leu
115     120     125
Asp Arg Glu Ser Val Leu Phe Gly Asp Ser Thr Leu Ala Leu Arg Gln
130     135     140
Trp Met Arg Glu Asn His Ile Ala Phe Glu Met Gln Gln Asn Glu Pro
145     150     155
Glu Asp His Phe Gly Thr Leu Leu Met Leu Ala Ala Trp Leu Ala Glu
165     170     175
Asn Gly Arg Glu Thr Glu Arg Asp Gln Leu Leu Ala Trp His Leu Leu
180     185     190
Pro Trp Ser Thr Arg Phe Leu Ser Val Phe Val Glu Asn Ala Ala His
195     200     205
Pro Phe Tyr Thr Ala Leu Gly Lys Leu Ala Gln Leu Thr Leu Ala Glu
210     215     220
Trp Gln Ser Thr Leu Leu Ile Pro Ile Val Glu Lys Thr Leu Tyr Arg
225     230     235     240

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<210> 10251
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

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<400> 10251
Glu Thr Arg Asn Pro Asp Ala Arg Val Ser Met Val Thr Thr Trp Asp
1      5      10      15
Lys Thr Phe Ala Glu Ser Asp Lys Val Asp His Arg Lys Val Thr Phe
20      25      30
Glu Asn Arg Tyr Gly Ile Thr Leu Ala Gly Asp Leu Tyr Ile Pro Arg
35      40      45
Asn Ser Gly Asp Gln Met Leu Ala Ser Leu Leu Val Val Lys Tyr
50      55      60
Thr Tyr Val Tyr Thr Glu Ser Asn Pro Ile Pro Leu Gln Arg Ala Cys
65      70      75      80
Ile Leu Gly Arg Tyr Leu Cys Pro Pro Val Cys Ser Arg His Gln Gln
85      90      95

```

<210> 10252
 <211> 246
 <212> PRT
 <213> Enterobacter cloacae

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<400> 10252
Arg Met Arg Thr Gly Arg His Thr Ala Met His Pro Leu Leu Lys Arg

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```
<210> 10253
<211> 304
<212> PRT
<213> Enterobacter cloacae
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<400> 10253																
Gln	Gly	Ala	Ser	Met	Arg	Leu	Phe	Ser	Gly	Leu	Thr	Ala	Leu	Cys	Ala	
1				5					10					15		
Ala	Ala	Leu	Phe	Thr	Ser	Gln	Ala	Leu	Ala	Ala	Pro	Leu	Ile	Leu	Ala	
			20					25					30			
Thr	Lys	Ser	Phe	Thr	Glu	Gln	His	Ile	Leu	Ser	Ala	Met	Thr	Val	Gln	
		35					40					45				
Tyr	Leu	Gln	Lys	Lys	Gly	Phe	Gln	Val	Gln	Pro	Gln	Thr	Asn	Ile	Ala	
	50					55					60					
Thr	Val	Ile	Ser	Arg	Asn	Ala	Met	Ile	Asn	Lys	Gln	Ile	Asp	Met	Thr	
65				70						75				80		
Trp	Glu	Tyr	Thr	Gly	Thr	Ser	Leu	Ile	Ile	Phe	Asn	His	Ile	Asn	Lys	
				85					90					95		
Arg	Met	Ser	Pro	Gln	Glu	Ser	Tyr	Glu	Thr	Val	Lys	Arg	Leu	Asp	Ala	
			100					105					110			
Lys	His	Gly	Leu	Val	Trp	Leu	Lys	Pro	Ala	Asp	Met	Asn	Asn	Thr	Tyr	
		115					120					125				
Ala	Phe	Ala	Met	Gln	Arg	Lys	Arg	Ala	Glu	Ala	Glu	His	Ile	Asn	Thr	
	130					135					140					
Met	Ser	Glu	Met	Val	Ala	Lys	Ile	Glu	Gln	Ile	Arg	Lys	Thr	Asp	Pro	
145				150						155				160		
Asp	Asn	Asn	Trp	Leu	Leu	Gly	Leu	Asp	Leu	Glu	Phe	Ala	Gly	Arg	Ser	
				165					170					175		
Asp	Gly	Met	Lys	Pro	Leu	Gln	Ala	Ala	Tyr	Lys	Met	Glu	Leu	Asp	Arg	

180							185				190				
Pro	Gln	Ile	Arg	Gln	Met	Asp	Pro	Gly	Leu	Val	Tyr	Asn	Ala	Val	Arg
195							200				205				
Asp	Gly	Phe	Val	Asp	Ala	Gly	Leu	Ile	Tyr	Thr	Thr	Asp	Gly	Arg	Val
210							215				220				
Lys	Gly	Phe	Asp	Leu	Lys	Val	Leu	Glu	Asp	Asp	Lys	Gly	Phe	Phe	Pro
225							230				235				
Ser	Tyr	Ala	Val	Thr	Pro	Val	Val	Arg	Lys	Asp	Thr	Leu	Glu	Ala	Asn
245							250				255				
Pro	Gly	Leu	Glu	Glu	Ala	Leu	Asn	Thr	Leu	Ser	Ala	Gln	Leu	Asn	Asn
260							265				270				
Asp	Val	Ile	Thr	Asp	Leu	Asn	Lys	Lys	Val	Asp	Ile	Asp	His	Gln	Ser
275							280				285				
Pro	Gln	Gln	Val	Ala	Arg	Asp	Phe	Leu	Arg	Ser	Lys	Gln	Leu	Leu	
290							295				300				

<210> 10254

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 10254

Thr	Glu	Tyr	Leu	His	Phe	Pro	Thr	Leu	Ile	Leu	Trp	Ser	Tyr	Pro	Ser
1				5					10					15	
Pro	Glu	Thr	Thr	Gly	Met	Phe	Lys	Gln	Gly	Leu	Cys	Val	Ser	Arg	Thr
			20					25					30		
Thr	Thr	Val	Asp	Ile	Ala	Pro	Ala	Ser	Asp	Ile	Asp	Asp	Leu	Pro	Ala
		35					40				45				
Ala	Pro	Gln	Pro	Val	Gln	Phe	Ile	Lys	Arg	Gly	Thr	Pro	Gln	Phe	Met
	50					55				60					
Arg	Val	Thr	Leu	Ala	Leu	Phe	Ser	Ala	Gly	Leu	Ala	Thr	Phe	Ala	Leu
					70					75					80
Leu	Tyr	Cys	Val	Gln	Pro	Ile	Leu	Pro	Val	Leu	Ser	His	Glu	Phe	Gly
				85					90					95	
Val	Ser	Pro	Ala	Ser	Ser	Ser	Ile	Ser	Leu	Ser	Ile	Ser	Thr	Gly	Met
			100					105					110		
Leu	Ala	Ile	Gly	Leu	Leu	Phe	Thr	Gly	Pro	Leu	Ser	Asp	Ala	Ile	Gly
		115					120					125			
Arg	Lys	Gln	Val	Met	Val	Thr	Ala	Leu	Met	Leu	Ala	Ser	Val	Cys	Thr
	130					135					140				
Leu	Leu	Ser	Thr	Met	Met	Thr	Ser	Trp	His	Gly	Ile	Leu	Ile	Met	Arg
				150						155					160
Ala	Leu	Ile	Gly	Leu	Ser	Leu	Ser	Gly	Val	Ala	Ala	Val	Gly	Met	Thr
				165					170					175	
Tyr	Leu	Ser	Glu	Glu	Ile	His	Pro	Ser	Phe	Val	Ala	Phe	Ser	Met	Gly
			180					185					190		
Leu	Tyr	Ile	Ser	Gly	Asn	Ser	Ile	Gly	Gly	Met	Ser	Gly	Arg	Leu	Leu
		195					200					205			
Ser	Gly	Val	Phe	Thr	Asp	Phe	Phe	Asn	Trp	Arg	Ile	Ala	Leu	Ala	Val
	210					215					220				
Ile	Gly	Cys	Phe	Ala	Leu	Ala	Ser	Ala	Leu	Met	Phe	Trp	Lys	Ile	Leu
				230						235					240
Pro	Glu	Ser	Arg	His	Phe	Arg	Pro	Thr	Ser	Leu	Arg	Pro	Lys	Thr	Leu
				245						250				255	
Phe	Ile	Asn	Phe	Arg	Leu	His	Trp	Arg	Asp	Gln	Gly	Leu	Pro	Arg	Leu
			260					265					270		
Phe	Leu	Thr	Gly	Phe	Leu	Leu	Met	Gly	Ser	Phe	Val	Thr	Leu	Phe	Asn
		275					280					285			
Tyr	Ile	Gly	Tyr	Arg	Leu	Met	Leu	Ser	Pro	Trp	His	Leu	Ser	Gln	Ala
	290					295					300				
Leu	Val	Gly	Leu	Leu	Ser	Val	Ala	Tyr	Leu	Thr	Gly	Thr	Trp	Ser	Ser

305					310					315				320
Pro	Lys	Ala	Gly	Ala	Met	Thr	Ala	Arg	Phe	Gly	Arg	Gly	Pro	Val Met
				325					330					335
Leu	Val	Ser	Thr	Ala	Val	Met	Leu	Phe	Gly	Leu	Leu	Met	Thr	Leu Phe
			340					345					350	
Ser	Ser	Leu	Trp	Leu	Ile	Phe	Ala	Gly	Met	Leu	Leu	Phe	Ser	Ala Gly
		355					360					365		
Phe	Phe	Ala	Ala	His	Ser	Val	Ala	Ser	Ser	Trp	Ile	Gly	Pro	Arg Ala
	370					375				380				
Arg	Arg	Ala	Lys	Gly	Gln	Ala	Ser	Ser	Leu	Tyr	Leu	Phe	Ser	Tyr Tyr
385					390				395					400
Leu	Gly	Ser	Ser	Ile	Ala	Gly	Thr	Leu	Gly	Gly	Val	Phe	Trp	His Asn
				405					410					415
Tyr	Gly	Trp	Asn	Gly	Val	Gly	Gly	Phe	Ile	Ala	Leu	Met	Leu	Cys Ala
			420				425						430	
Ala	Leu	Leu	Val	Gly	Ala	Ser	Leu	His	Lys	Arg	Leu	His		
		435					440					445		

<210> 10255

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10255

Leu	Pro	Pro	Pro	Glu	Cys	Asp	Met	Arg	Lys	Ser	Val	Val	Leu	Leu	Leu
1				5					10					15	
Gly	Thr	Phe	Ser	Leu	Phe	Ala	Gly	Phe	Ser	His	Ala	Asp	Asp	Gly	Asp
			20					25					30		
Asp	Asp	Ala	Ile	Ser	Ala	Lys	Glu	Val	Lys	Thr	Leu	Phe	Phe	Gly	His
		35					40					45			
Asp	Asp	Arg	Thr	Arg	Val	Thr	Asp	Pro	Thr	Glu	Ser	Pro	Trp	Asp	Ala
		50				55					60				
Ile	Gly	Gln	Leu	Glu	Thr	Ala	Ser	Gly	Asn	Leu	Cys	Thr	Ala	Thr	Leu
65				70					75						80
Ile	Thr	Pro	Arg	Leu	Ala	Leu	Thr	Ala	Gly	His	Cys	Leu	Leu	Met	Pro
				85					90					95	
Pro	Glu	Gly	Lys	Pro	Asp	Lys	Ala	Ile	Ala	Leu	Arg	Phe	Val	Ser	Gln
			100					105					110		
Lys	Gly	Ile	Trp	Arg	Tyr	Glu	Ile	His	Gly	Ile	Glu	Gly	Arg	Val	Asp
		115				120					125				
Pro	Ser	Leu	Gly	Lys	Arg	Leu	Lys	Pro	Asp	Gly	Asp	Gly	Trp	Ile	Val
		130				135					140				
Pro	Pro	Gly	Ala	Ala	Ser	Trp	Asp	Phe	Gly	Leu	Ile	Val	Leu	Arg	Tyr
145					150					155					160
Pro	Pro	Ser	Gly	Ile	Thr	Pro	Leu	Pro	Leu	Phe	Asp	Gly	Asp	Lys	Ala
				165					170					175	
Ala	Leu	Thr	Ala	Ala	Leu	Lys	Ala	Ala	Asp	Arg	Lys	Val	Thr	Gln	Ser
			180					185					190		
Gly	Tyr	Pro	Val	Asp	His	Leu	Asp	Ser	Leu	Tyr	Thr	His	Thr	Asp	Cys
		195					200					205			
Val	Val	Thr	Gly	Trp	Ala	Gln	Asn	Ser	Val	Leu	Ser	His	Gln	Cys	Asp
		210				215					220				
Thr	Leu	Pro	Gly	Asp	Ser	Gly	Ser	Pro	Leu	Met	Leu	Lys	Thr	Asp	Asn
225					230					235					240
Gly	Trp	Gln	Leu	Ile	Gly	Val	Gln	Ser	Ser	Ala	Pro	Ala	Ala	Lys	Asp
				245					250					255	
Arg	Trp	Arg	Ala	Asp	Asn	Arg	Ala	Leu	Ser	Val	Thr	Gly	Phe	Arg	Asp
			260					265						270	
Arg	Leu	Glu	Ala	Leu	Ala	Gln	Gln								
		275					280								

Val	Pro	Glu	Ala	Ala	Pro	Pro	Leu	Arg	Leu	Ser	Ala	Glu	Ala	Asp	Tyr
225					230					235					240
Gln	Leu	Ala	Val	Thr	Glu	Arg	Pro	Ala	Leu	Trp	Arg	Cys	Pro	Leu	Ile
				245					250					255	
Arg	Lys	Ser	Asp	Asn	Val	Thr	Leu	Leu	Arg	Glu	Phe	Leu	Leu	Asp	Glu
			260					265						270	
Ala	Pro	Gly	Ser	Leu	Ile	Asp	Gly	Leu	Arg	Ala	Arg	Gly	Leu	Ala	Glu
		275					280					285			
Glu	Val	Ser	Leu	Asp	Trp	Leu	Tyr	Gln	Asp	Asp	Asp	Tyr	Gly	Trp	Leu
	290					295				300					
Ala	Leu	Thr	Leu	Asp	Gly	Glu	Arg	Pro	Glu	Ala	Ile	Asp	Ala	Gln	Ile
305					310					315					320
Thr	Arg	Trp	Leu	Arg	Ala	Leu	Gln	Gln	Thr	Thr	Gln	Glu	Gln	Gln	Arg
				325					330					335	
His	Tyr	Tyr	Arg	Leu	Ala	Gln	Gln	Arg	Phe	Ser	Ala	Leu	Ser	Pro	Leu
			340					345					350		
Asp	Gln	Leu	Arg	Gln	Arg	Ala	Phe	Gly	Phe	Ala	Pro	Gly	Ala	Ala	Pro
		355					360					365			
Val	Asp	Phe	Ser	Ala	Phe	Cys	Ala	Asp	Leu	Leu	Ala	Ala	Pro	Thr	Ser
	370					375					380				
Tyr	Leu	Ala	Cys	Lys	Lys	Met	Glu	Thr	Ala	Glu	Ile	Ile	Ala	Ser	Gln
385					390					395					400
Gly	Phe	Ala	Leu	Pro	Leu	Ser	His	Trp	Arg	Arg	Gln	Pro	Val	Ala	Asp
				405					410					415	
Glu	Ser	Pro	Ile	Ala	Phe	Ser	Phe	Tyr	Pro	Gln	Ala	Thr	Gln	Tyr	Ser
			420					425					430		
Ala	Pro	Ala	Leu	Thr	Pro	Glu	Ala	Val	Pro	Leu	Leu	His	Leu	Pro	Ala
		435					440					445			
Gln	Ala	Gln	Ala	Pro	Thr	Leu	Ile	Leu	Arg	Arg	Pro	Phe	Tyr	Ser	Arg
	450					455					460				
Val	Ser	Glu	Ser	Gln	Gly	Val	Ala	Ile	Gly	Lys	Gln	Leu	Arg	Pro	Leu
465					470					475					480
Leu	Ala	Glu	Met	Arg	His	Ile	Gly	Ser	Ser	Gly	Glu	Trp	Gln	Thr	Val
			485					490						495	
Asp	Gly	Ser	Trp	Gln	Leu	Thr	Leu	Arg	Leu	Pro	Asp	Ala	Val	Val	Met
			500					505					510		
Ala	Glu	Pro	Ile	Ile	Gly	Ala	Ile	Ile	Asp	Arg	Leu	Ser	Arg	Pro	Thr
		515					520					525			
Pro	Ala	Ile	Thr	Pro	Ala	Pro	Asp	Gly	Ile	Ala	Ile	Arg	Gln	Leu	Leu
		530				535						540			
Lys	Gln	Leu	Pro	Glu	Arg	Leu	Ala	Ser	Glu	Pro	Ser	Arg	Asn	Gly	Trp
545					550					555					560
Leu	Ala	Ala	Leu	Ala	Gly	Gly	Ser	Ala	Gly	His	Ala	His	Gly	Leu	Ala
				565					570					575	
Arg	Gln	Leu	Gly	Leu	Leu	Arg	Ala	Pro	Val	Asn	Ala	Lys	Pro	Leu	Pro
			580					585					590		
Leu	Ser	Asp	Cys	Pro	Gly	Gly	Val	Glu	His	Ile	Pro	His	Ala	Ser	Ala
		595					600					605			
Asp	Ser	Ala	Leu	Leu	Val	Phe	Ile	Pro	Leu	Pro	Pro	Gly	Ala	Ser	Leu
	610					615					620				
Ala	Ala	Leu	Arg	Leu	Leu	Ala	Leu	Cys	Cys	Glu	Pro	Arg	Phe	Phe	Gln
625					630					635					640
Arg	Leu	Arg	Val	Glu	Gln	Gln	Ile	Gly	Tyr	Val	Val	Ser	Cys	Arg	Tyr
			645						650					655	
Gln	Arg	Ile	Ala	Asp	Arg	Asp	Gly	Leu	Leu	Leu	Ala	Leu	Gln	Ser	Pro
			660				665						670		
Asp	Arg	Ser	Pro	Val	Asn	Leu	Leu	Gly	Cys	Cys	Lys	Arg	Phe	Leu	Arg
		675					680					685			
Glu	Leu	Thr	Leu	Cys	Asp	Glu	Ser	Glu	Phe	Ser	Leu	Leu	Arg	Gln	Gln
	690					695					700				
Leu	Ala	Thr	Gln	Ile	Arg	Ser	Pro	Met	Asp	Ala	Ser	Ala	Thr	Ala	Val

705					710					715				720	
Ala	Ala	Leu	Arg	Gln	Arg	Tyr	Gly	Leu	Pro	Val	Leu	Thr	Pro	Gln	Ala
				725					730					735	
Ile	Asp	Ala	Leu	Gln	Pro	Asp	Glu	Ile	Val	Ala	Leu	Trp	Arg	Glu	Met
			740					745					750		
Thr	Arg	Arg	Arg	Arg	Arg	Trp	Arg	Val	Leu	Phe	Thr	Gly			
		755					760					765			

<210> 10258

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10258

Ile	Lys	Cys	Gln	Gln	Ala	Thr	Gly	Gln	Pro	Pro	Gln	Ser	Asn	Thr	Lys
1				5				10						15	
Gln	Glu	Phe	Pro	Met	Ser	Lys	Val	Leu	Val	Leu	Lys	Ser	Ser	Ile	Leu
			20					25					30		
Ala	Gly	Tyr	Ser	Gln	Ser	Gly	Gln	Leu	Ser	Asp	Tyr	Phe	Val	Glu	Gln
		35				40						45			
Trp	Arg	Glu	Gln	His	Ser	Ala	Asp	Glu	Ile	Thr	Val	Arg	Asp	Leu	Ala
	50					55					60				
Ala	Asn	Pro	Ile	Pro	Val	Leu	Asp	Gly	Glu	Leu	Val	Gly	Ala	Leu	Arg
65				70					75					80	
Pro	Ser	Asp	Ala	Pro	Leu	Thr	Pro	Arg	Gln	Gln	Glu	Ala	Leu	Ala	Leu
			85					90					95		
Ser	Asp	Glu	Leu	Ile	Ala	Glu	Leu	Gln	Ala	His	Asp	Val	Ile	Val	Ile
		100					105						110		
Asn	Ala	Pro	Met	Tyr	Asn	Phe	Asn	Ile	Pro	Thr	Gln	Leu	Lys	Asn	Tyr
	115						120					125			
Phe	Asp	Leu	Val	Ala	Arg	Ala	Gly	Val	Thr	Phe	Arg	Tyr	Thr	Glu	Asn
	130					135					140				
Gly	Pro	Glu	Gly	Leu	Val	Lys	Gly	Lys	Arg	Ala	Ile	Val	Leu	Thr	Ser
145				150					155					160	
Arg	Gly	Gly	Ile	His	Lys	Asp	Thr	Pro	Thr	Asp	Leu	Val	Ala	Pro	Tyr
			165					170						175	
Met	Thr	Leu	Phe	Leu	Gly	Phe	Ile	Gly	Ile	Thr	Asp	Val	Asn	Phe	Val
		180					185						190		
Phe	Ala	Glu	Gly	Ile	Ala	Tyr	Gly	Pro	Glu	Val	Ala	Thr	Lys	Ala	Gln
	195						200					205			
Ser	Asp	Ala	Lys	Ala	Ala	Ile	Asp	Ser	Leu	Val	Ala	Ala			
	210					215					220				

<210> 10259

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 10259

Ile	Ser	Arg	Arg	Ser	Ser	Asn	Asn	Ala	Val	Asn	Met	Met	Asn	Lys	Ala
1				5				10						15	
Thr	Thr	Leu	Ser	Ala	Asn	Ile	Thr	Thr	Arg	Ser	Asn	Trp	His	Trp	Gln
		20						25					30		
Asp	Asn	Ile	Trp	Thr	Leu	Gly	Leu	Tyr	Gly	Thr	Ala	Val	Gly	Ala	Gly
	35					40					45				
Thr	Leu	Phe	Leu	Pro	Val	Glu	Ile	Gly	Thr	Arg	Gly	Pro	Val	Ile	Phe
	50					55				60					
Leu	Val	Met	Leu	Leu	Leu	Gly	Leu	Pro	Leu	Ser	Leu	Ile	Pro	His	Leu
65				70					75					80	
Leu	Leu	Cys	Arg	Val	Tyr	Met	Arg	Glu	Glu	Lys	Thr	Glu	Asn	Gly	Thr
				85				90						95	

```

Leu Pro Ile Phe Gly Ser Phe Phe Ser Gly Arg Gly Glu Lys Leu Ile
      100      105      110
Thr Leu Phe Tyr Cys Val Thr Phe Phe Pro Val Thr Leu Val Tyr Gly
      115      120      125
Val Ala Leu Ile Asn Ala Leu Ser Asn Leu Leu Val Glu His Leu His
      130      135      140
Ile Thr Ala Leu Ser Arg Gly Pro Leu Ser Phe Ile Val Val Ala Ala
145      150      155      160
Leu Tyr Val Val Leu Ser Lys Gly Arg Asp Arg Val Val Ala Ile Met
      165      170      175
Ser Ala Leu Ala Leu Pro Phe Ala Ala Ser Val Leu Leu Ile Ala Val
      180      185      190
Ser Leu Ile Pro Gly Trp His Leu Ser Asn Leu Thr Asp Thr Ala Ala
      195      200      205
Glu Met Asn Ala Thr Pro Leu Pro Val Thr Leu Lys Asn Ile Trp Leu
      210      215      220
Thr Leu Pro Leu Ile Thr Phe Ser Phe Cys Cys Ala Pro Met Val Ser
225      230      235      240
Pro Leu Thr Ser Tyr Tyr Arg Glu Arg Lys Ala Glu Gly Glu Lys Lys
      245      250      255
Ala Leu Phe Val Ile Arg Ile Ala Tyr Leu Ala Ile Phe Ala Ser Ile
      260      265      270
Leu Phe Phe Val Leu Ser Cys Val Leu Gly Ile Pro His Asp Asn Phe
      275      280      285
Val Arg Ala Lys Ala Glu Asn Leu Asn Val Leu Ser Val Met Lys Gly
      290      295      300
Asn Gly Asp Phe Ser Leu Ile Tyr His Ile Ala Pro Leu Ile Ala Ile
305      310      315      320
Ile Gly Met Thr Lys Ser Phe Leu Gly Val Gly Leu Ser Val Ala Gln
      325      330      335
Thr Phe Gly Gln Leu Ala Ala Ser Val Ser Gly Lys Lys Ala Ser Ala
      340      345      350
Ser Lys Arg Leu Ala Ser Leu Ala Leu Phe Leu Leu Thr Tyr Gly Ile
      355      360      365
Val Tyr Ala Asn Pro Asp Val Leu Ser Leu Ile Glu Met Phe Cys Gly
      370      375      380
Pro Leu Ile Ala Val Ile Leu Phe Leu Ile Pro Ala Tyr Leu Ile Tyr
385      390      395      400
Thr Arg Pro Ser Leu Ala Glu Leu Arg Gly Val Thr Gly Phe Leu Val
      405      410      415
Val Leu Gly Gly Leu Ala Thr Leu Ser Ala Leu Leu Trp Thr Met Leu
      420      425      430

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<210> 10260

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10260

```

Thr Ile Met Phe Val Glu Leu Val Tyr Asp Lys Arg Asn Val Gln Gly
1      5      10      15
Leu Glu Gly Ala Arg Glu Ile Ile Leu Thr Glu Leu Thr Lys Arg Val
      20      25      30
His Arg Ile Phe Pro Asp Ala Ser Val Thr Val Lys Pro Met Gln Ala
      35      40      45
Asn Gly Leu Asn Ser Asp Ala Ser Lys Ser Asp Arg Glu Lys Leu Asn
      50      55      60
Arg Met Leu Glu Glu Met Phe Glu Glu Ser Asp Met Trp Leu Ile Gln
65      70      75      80

```

Glu

<210> 10261

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 10261

```

Pro Thr Ser Phe Thr Pro Val His Gly Ile Ser Pro Gln Ser Arg Pro
1      5      10      15
Ala Cys Ala Ser Leu Gln Trp Arg His Thr Asn Val Ala Leu Thr Thr
20      25      30
Cys Arg Arg Ala Cys Tyr Val Ser Thr Thr Gln Lys Ala Leu Arg Asn
35      40      45
Ser Glu Met Ile Ile Leu Val Thr Gly Ala Thr Ala Gly Phe Gly Glu
50      55      60
Ser Ile Thr Arg Arg Phe Val Ala Asn Gly His Lys Val Ile Ala Thr
65      70      75      80
Gly Arg Arg Gln Glu Arg Leu Gln Glu Leu Lys Asp Glu Leu Gly Asp
85      90      95
Ser Ile Leu Thr Ala Gln Leu Asp Val Arg Asn Arg Ala Ala Ile Glu
100     105     110
Glu Met Ile Ala Asn Leu Pro Ala Glu Trp Arg Glu Ile Asp Val Leu
115     120     125
Val Asn Asn Ala Gly Leu Ala Leu Gly Met Glu Pro Ala His Lys Ala
130     135     140
Ser Leu Glu Asp Trp Glu Asn Met Ile Asp Thr Asn Asn Lys Gly Leu
145     150     155     160
Val Tyr Met Thr Arg Ala Val Leu Pro Gly Met Val Glu Arg Asn Arg
165     170     175
Gly His Ile Ile Asn Ile Gly Ser Thr Ala Gly Ser Trp Pro Tyr Ala
180     185     190
Gly Gly Asn Val Tyr Gly Ala Thr Lys Ala Phe Val Arg Gln Phe Ser
195     200     205
Leu Asn Leu Arg Thr Asp Leu His Gly Thr Ala Ile Arg Val Thr Asp
210     215     220
Val Glu Pro Gly Leu Val Gly Gly Thr Glu Phe Ser Asn Val Arg Phe
225     230     235     240
Lys Gly Asp Asp Ala Lys Ala Asp Lys Thr Tyr Glu Asn Ala Asn Ala
245     250     255
Leu Thr Pro Glu Asp Ile Thr Glu Thr Val Trp Trp Val Ala Asn Leu
260     265     270
Pro Lys His Val Asn Ile Asn Thr Val Glu Met Met Pro Val Ser Gln
275     280     285
Thr Tyr Ala Gly Leu Ser Val His Arg Gly
290     295

```

<210> 10262

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 10262

```

Leu Ser Glu Lys Ser Gln Pro Met Ala Ala Glu Ser Gln Leu Asn Pro
1      5      10      15
Thr Gln Pro Val Asn Gln Gln Ile Tyr Arg Ile Leu Arg Arg Asp Ile
20      25      30
Val Arg Cys Leu Ile Pro Pro Gly Thr Pro Leu Ser Glu Lys Glu Val
35      40      45
Ser Val Arg Phe Asp Val Ser Arg Gln Pro Val Arg Glu Ala Phe Ile

```

50	55	60
Lys Leu Ala Glu Asn Gly	Leu Ile Gln Ile Arg Pro Gln Arg Gly Ser	
65	70	75
Tyr Val Asn Lys Ile Ser	Leu Ser Gln Val Arg Asn Gly Cys Phe Val	80
	85	90
Arg Gln Ala Ile Glu Cys	Ala Val Val Arg Arg Ala Ala Ser Leu Ile	95
	100	105
Asn Asp Asn Gln Cys Tyr	Leu Leu Glu Gln Asn Leu His Gln Gln Arg	110
	115	120
Ile Ala Ile Asp Arg Lys	Gln Leu Asn Asp Phe Phe Gln Leu Asp Asp	125
	130	135
Glu Phe His Gln Lys Leu	Ala Gln Ile Ala Glu Cys Gln Leu Ala Trp	140
145	150	155
Asp Thr Val Glu Asn Ile	Lys Ala Thr Ile Asp Arg Val Arg Tyr Met	160
	165	170
Ser Leu Asp His Val Ser	Pro Pro Glu Met Leu Leu Arg Gln His His	175
	180	185
Asp Ile Phe Ser Ala Leu	Glu Lys Arg Asp Val Glu Ala Val Asp Lys	190
	195	200
Ala Met Thr Leu His Leu	Gln Glu Ile Ser Glu Ser Val Gln Leu Ile	205
	210	215
Arg Gln Glu Asn Arg Glu	Trp Phe Ser Glu Glu	220
225	230	235

<210> 10263

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10263

Ser Asp Cys Leu His Pro	Phe Lys Gly Asn Ala Met Thr Thr Leu Ser
1	5 10 15
Lys Arg Leu Cys Leu Ala	Ala Ala Leu Ser Ser Phe Ala Phe
	20 25 30
Ala Ala Thr Ala Ser Ala	Glu Thr Ser Lys Leu Ile Ile Glu Ser Gly
	35 40 45
Asp Ser Ala Gln Ser Arg	Gln Asn Ala Ala Met Asp Lys Glu Gln Trp
	50 55 60
Asn Asp Thr Arg Ser Leu	Arg Gln Lys Val Asn Lys Arg Val Glu Lys
65	70 75 80
Glu Trp Asp Lys Glu Asp	Val Ala Phe Asp Ala Arg Asp Lys Cys Gln
	85 90 95
Gln Ser Ala Asn Val Asn	Ala Tyr Trp Glu Pro Asn Thr Leu Arg Cys
	100 105 110
Leu Asp Arg Arg Thr Gly	Arg Thr Val Ala Pro
	115 120

<210> 10264

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 10264

Leu Asn Leu Thr Pro Thr	Ala Val Arg Arg Gly Thr Pro Pro Ala Thr
1	5 10 15
Trp Gln Thr Arg Arg Arg	Cys Glu Met Gly Ser Gly Trp His Glu Trp
	20 25 30
Pro Leu Met Ile Phe Thr	Val Phe Gly Gln Cys Val Ala Gly Ala Leu
	35 40 45
Ile Val Met Gly Phe Val	Trp Leu Lys Glu Asn Asp Asp Lys Ala Arg
	50 55 60

Met Arg Ile Val Arg Ser Leu Phe Phe Leu Trp Leu Val Met Gly Ile
 65 70 75 80
 Gly Phe Met Ala Ser Val Leu His Leu Gly Ser Pro Leu Arg Ala Phe
 85 90 95
 Asn Ser Leu Asn Arg Val Gly Ala Ser Ala Leu Ser Asn Glu Ile Ala
 100 105 110
 Ala Gly Ser Leu Phe Phe Ala Val Gly Gly Phe Trp Trp Leu Val Ser
 115 120 125
 Val Ile Gly Lys Met Pro Pro Ala Leu Gly Lys Ile Trp Leu Val Val
 130 135 140
 Ser Gln Leu Leu Gly Ile Val Phe Val Trp Ala Met Thr Arg Val Tyr
 145 150 155 160
 Gln Ile Glu Thr Val Pro Thr Trp Tyr Thr Gly Tyr Thr Thr Leu Ser
 165 170 175
 Phe Phe Leu Thr Met Val Leu Ala Gly Pro Leu Leu Ala Ala Leu Leu
 180 185 190
 Leu Arg Val Ala Asn Val Thr Phe Lys Gly Thr Leu Ala Ala Ser Val
 195 200 205
 Ser Val Leu Ala Ile Ile Val Cys Val Ala Val Val Val Leu Gln Ser
 210 215 220
 Asn Thr Leu Gly Thr Ile Gln Ser Ser Ile Gln Gln Ala Ser Ala Leu
 225 230 235 240
 Leu Pro Asp Tyr Gly Ser Leu Gln Val Trp Arg Ile Ala Leu Leu Ala
 245 250 255
 Ala Gly Leu Gly Cys Trp Ile Cys Pro Leu Ile Arg Arg Gln Glu Pro
 260 265 270
 Lys Thr Leu Gly Leu Phe Ala Gly Val Val Leu Val Ala Leu Gly Glu
 275 280 285
 Leu Ile Gly Arg Gly Leu Phe Tyr Gly Leu His Met Thr Ala Gly Leu
 290 295 300
 Ala Ile Ala Gly
 305

<210> 10265

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10265

Ser Arg Leu Ser Lys Lys Arg Cys Thr Asp Asn Ser Thr Trp Leu Val
 1 5 10 15
 His Pro Leu Cys Arg Pro Gly Ser His Ile Phe Ala Ala Thr Gln Arg
 20 25 30
 His Asn Cys Tyr Thr Val Tyr Asn Tyr Ser Ile Arg Gly Cys Thr Met
 35 40 45
 Ala Val Glu Thr Lys Phe Val Val Val Arg Lys Gly Glu Glu Lys Met
 50 55 60
 Thr Phe Ala Ser Lys Lys Glu Ala Asp Ala His Asp Lys Leu Leu Asp
 65 70 75 80
 Met Ala Glu Ala Phe Thr Asp Trp Leu Leu Gln Ser Gly Met Gln Met
 85 90 95
 Asp Glu Thr Gln Ala Glu Asn Leu Gly Leu Tyr Leu Ala Glu Gln Lys
 100 105 110
 Glu Ser Val Gln His Ile Leu Arg Thr Ser Lys Leu Pro Glu Arg Asn
 115 120 125
 Ala Ala Thr Asp Lys Thr Ala Ser Asp Ala Asp Ser Ser Lys Lys Ile
 130 135 140
 Arg Ala Val Lys Ala Ala
 145 150

<210> 10266

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 10266

Tyr Ser Tyr Val Asp Cys Gly Arg Ala Asp Asp Leu Ser Phe Ser Asp
 1 5 10 15
 Cys Ala Arg Leu Val Ala Ala Pro Phe Ala Gly Gly Thr Asp Ser Glu
 20 25 30
 Gly Asp Ser Ile Met Ile Lys Leu Glu Asn Leu Thr Lys Gln Phe Ser
 35 40 45
 Gln Lys His Gly Gln Thr Phe Lys Ala Val Asp Asn Val Asn Leu Asn
 50 55 60
 Val Pro Glu Gly Glu Met Cys Val Leu Leu Gly Pro Ser Gly Cys Gly
 65 70 75 80
 Lys Thr Thr Thr Leu Lys Met Ile Asn Arg Leu Ile Thr Pro Ser Ser
 85 90 95
 Gly Thr Ile Leu Ile Asn Gly Glu Asp Thr Ser Gly Met Asp Thr Val
 100 105 110
 Thr Leu Arg Arg Asn Ile Gly Tyr Val Ile Gln Gln Ile Gly Leu Phe
 115 120 125
 Pro Asn Met Thr Ile Glu Glu Asn Ile Thr Val Val Pro Arg Met Leu
 130 135 140
 Gly Trp Asp Lys Ala Arg Cys Lys Ser Arg Ala Glu Glu Leu Met Asp
 145 150 155 160
 Met Val Ala Met Asp Pro His Lys Phe Leu His Arg Tyr Pro Arg Glu
 165 170 175
 Met Ser Gly Gly Gln Gln Gln Arg Ile Gly Val Ile Arg Ala Leu Ala
 180 185 190
 Ala Asp Pro Pro Val Leu Leu Met Asp Glu Pro Phe Gly Ala Val Asp
 195 200 205
 Pro Ile Asn Arg Glu Val Ile Gln Asn Gln Phe Leu Glu Met Gln Arg
 210 215 220
 Lys Leu Lys Lys Thr Val Met Leu Val Ser His Asp Ile Asp Glu Ala
 225 230 235 240
 Leu Lys Leu Gly Asp Arg Ile Ala Val Phe Arg Gln Gly Arg Ile Val
 245 250 255
 Gln Cys Ala Ser Pro Asp Glu Leu Leu Ala Lys Pro Ala Asn Glu Phe
 260 265 270
 Val Gly Ser Phe Val Gly Gln Asp Arg Thr Leu Lys Arg Leu Leu Leu
 275 280 285
 Val Ser Ala Gly Asp Val Thr Asp Gln Gln Pro Thr Ile Thr Val Arg
 290 295 300
 Glu Ser Thr Pro Leu Pro Glu Ala Phe Ala Thr Met Asp Asp Asn Asp
 305 310 315 320
 Ile Arg Ala Ile Thr Val Val Asp Glu His Gly Lys Pro Leu Gly Phe
 325 330 335
 Val Lys Arg Arg Glu Ala Arg Asn Ala Ser Gly Ser Cys Gly Asp Ile
 340 345 350
 Leu His Pro Phe Arg Met Thr Gly Lys Ala Glu Asp Asn Leu Arg Val
 355 360 365
 Val Leu Ser Arg Leu Tyr Glu Ser Asn Thr Ser Trp Met Pro Ile Val
 370 375 380
 Asp Glu Asp Gly Arg Tyr Asn Gly Glu Ile Ser Gln Asp Tyr Ile Ala
 385 390 395 400
 Glu Tyr Leu Ser Ser Gly Arg Thr Arg Arg Ala Leu Asn Ile His Ser
 405 410 415
 Glu Ser

<210> 10267

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 10267

Ala	Phe	Arg	Pro	Gly	Thr	Ala	Arg	Pro	Phe	Ser	Ala	Arg	Ile	Pro	Phe
1				5					10					15	
Ala	Asn	Leu	Pro	Ile	Ser	Arg	His	Asn	Ile	Val	Ser	Ser	Pro	Leu	Asn
			20					25					30		
His	Asp	Phe	Met	Gln	Arg	Leu	His	Ala	Tyr	Pro	Asp	Ile	Arg	Ala	Met
		35					40					45			
Phe	Arg	Arg	Leu	Leu	Ile	Ala	Thr	Val	Thr	Gly	Val	Leu	Ala	Ala	Leu
	50					55					60				
Ala	Val	Ala	Val	Phe	Arg	His	Ser	Met	Tyr	Leu	Leu	Glu	Trp	Leu	Phe
65					70					75					80
Leu	Ser	Asn	Glu	Ser	Gly	Ser	Leu	Val	Asn	Ala	Ala	Ala	Ala	Leu	Ser
			85						90					95	
Pro	Trp	Arg	Arg	Ala	Leu	Thr	Pro	Ala	Leu	Gly	Gly	Leu	Ala	Ala	Gly
			100					105					110		
Met	Leu	Leu	Trp	Gly	Trp	Gln	Arg	Met	Thr	Ala	Gln	Arg	Pro	His	Ala
		115					120					125			
Pro	Thr	Asp	Tyr	Met	Glu	Ala	Leu	Glu	Thr	Gly	Asp	Gly	Gln	Phe	Asp
		130				135					140				
Tyr	Gly	Ala	Ser	Leu	Val	Lys	Ser	Leu	Ala	Ser	Leu	Leu	Val	Val	Ala
145					150					155					160
Ser	Gly	Ser	Ala	Ile	Gly	Arg	Glu	Gly	Ala	Met	Ile	Leu	Leu	Ala	Ala
				165					170					175	
Leu	Ala	Ala	Ser	Phe	Phe	Ala	Gln	Arg	Cys	Thr	Pro	Lys	Ser	Glu	Trp
			180					185					190		
Lys	Leu	Trp	Ile	Ala	Cys	Gly	Ala	Ala	Ala	Gly	Met	Ala	Ser	Ala	Tyr
		195					200					205			
His	Ala	Pro	Leu	Ala	Gly	Ser	Leu	Phe	Ile	Ala	Glu	Ile	Leu	Phe	Gly
		210				215					220				
Thr	Leu	Met	Leu	Ala	Ser	Leu	Gly	Pro	Val	Val	Ile	Ala	Ala	Val	Val
225					230					235					240
Ala	Leu	Leu	Thr	Thr	Arg	Leu	Leu	Ser	Pro	Gly	Ala	Asn	Thr	Leu	Tyr
				245					250					255	
Asp	Val	His	Leu	Ser	Glu	Met	Leu	Thr	Ala	Val	Asp	Tyr	Phe	Leu	Ile
			260					265					270		
Val	Gly	Val	Gly	Leu	Leu	Ala	Gly	Val	Cys	Gly	Pro	Leu	Leu	Met	Trp
		275					280					285			
Leu	Met	Ala	Ala	Ser	His	Arg	Leu	Phe	Leu	Arg	Leu	Lys	Leu	Ser	Pro
		290				295					300				
Pro	Trp	Gln	Leu	Ala	Leu	Gly	Gly	Leu	Ile	Val	Gly	Leu	Leu	Ser	Leu
305					310					315					320
Leu	Thr	Pro	Lys	Val	Trp	Gly	Asn	Gly	Tyr	Ser	Val	Val	Gln	Ala	Phe
			325						330					335	
Leu	Gln	Ser	Pro	Pro	Leu	Leu	Ser	Val	Ile	Ala	Gly	Val	Phe	Ile	Cys
			340					345					350		
Lys	Leu	Leu	Ala	Val	Leu	Ala	Ser	Ser	Gly	Ser	Gly	Ala	Pro	Gly	Gly
		355					360					365			
Val	Phe	Thr	Pro	Thr	Leu	Phe	Val	Gly	Met	Ala	Thr	Gly	Met	Leu	Phe
		370				375					380				
Ala	Gln	Ile	Phe	Ala	Leu	Trp	Phe	Pro	Gly	Ser	Glu	Thr	Ala	Ile	Leu
385					390					395					400
Leu	Gly	Leu	Ala	Gly	Met	Ala	Thr	Leu	Leu	Ala	Ala	Thr	Thr	His	Ala
				405					410					415	
Pro	Ile	Met	Ser	Ala	Leu	Met	Val	Cys	Glu	Met	Thr	Gly	Gln	Tyr	Phe
			420					425					430		
Leu	Leu	Pro	Gly	Leu	Leu	Val	Ala	Cys	Val	Val	Ala	Ser	Val	Leu	Ser
		435					440					445			

Arg Thr Leu Arg His Asp Ser Thr Tyr Gly Gln His Thr Ala Glu Ser
 450 455 460
 Arg Glu Ile Asp Val Val Arg
 465 470

<210> 10268

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 10268

Ile Lys Asn Cys Ser Gly Thr Ser Met Ala Lys Pro Ile Ile Thr Leu
 1 5 10 15
 Asn Gly Leu Lys Ile Val Ile Met Leu Gly Met Leu Val Ile Ile Leu
 20 25 30
 Thr Gly Val Arg Phe Ala Ala Asp Ile Ile Val Pro Phe Ile Leu Ala
 35 40 45
 Leu Phe Ile Ala Val Ile Leu Asn Pro Leu Val Gln Arg Met Val Arg
 50 55 60
 Leu Arg Ile Pro Arg Val Leu Ala Ile Ser Leu Ile Ser Ile Ile
 65 70 75 80
 Ile Val Ala Met Val Leu Leu Val Ala Tyr Leu Gly Thr Ser Leu Asn
 85 90 95
 Glu Leu Ala Arg Thr Leu Pro Thr Tyr Arg Ser Ser Leu Ala Thr Pro
 100 105 110
 Leu Leu Gln Ile Glu Pro Trp Leu Gln Arg Ala Gly Ile Glu Val Ser
 115 120 125
 Val Glu Glu Met Leu Lys Tyr Ile Asp Pro Asn Ala Ala Met Thr Ile
 130 135 140
 Val Thr Ser Leu Leu Ala Gln Leu Ser Asn Ala Met Thr Ser Ile Phe
 145 150 155 160
 Leu Leu Phe Leu Thr Val Val Phe Met Leu Leu Glu Val Pro Gln Leu
 165 170 175
 Pro Ala Lys Leu Gln His Ile Met Val Arg Pro Val Glu Gly Met Gly
 180 185 190
 Ala Ile Gln Arg Ala Leu Asp Ser Val Ser Arg Tyr Leu Val Leu Lys
 195 200 205
 Thr Ala Ile Ser Leu Val Thr Gly Leu Val Val Trp Gly Met Leu Ala
 210 215 220
 Ala Leu Asp Val Arg Phe Ala Phe Val Trp Gly Leu Leu Ala Phe Ala
 225 230 235 240
 Leu Asn Tyr Ile Pro Asn Ile Gly Ser Val Leu Ala Ala Ile Pro Pro
 245 250 255
 Ile Leu Gln Val Leu Val Phe Ser Gly Leu Tyr Asp Ala Leu Ile Leu
 260 265 270
 Leu Ala Gly Tyr Leu Val Ile Asn Leu Val Phe Gly Asn Ile Leu Glu
 275 280 285
 Pro Arg Ile Met Gly Arg Gly Leu Gly Leu Ser Thr Leu Val Val Phe
 290 295 300
 Leu Ser Leu Ile Phe Trp Gly Trp Leu Leu Gly Pro Val Gly Met Leu
 305 310 315 320
 Leu Ser Val Pro Leu Thr Ile Ile Val Lys Ile Gly Leu Glu Gln Thr
 325 330 335
 Ala Gly Gly Gln Ser Ile Ala Val Leu Leu Ser Asp Met Ser His Lys
 340 345 350
 Ala Asp
 355

<210> 10269

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10269

Gln Val Thr Ser Ala Met Ala Leu Ile Pro Lys Asn Tyr Ala Arg Leu
 1 5 10 15
 Glu Ser Gly Tyr Arg Glu Lys Ala Leu Lys Ile Tyr Pro Trp Val Cys
 20 25 30
 Gly Arg Cys Ser Arg Glu Phe Val Tyr Ser Asn Leu Arg Glu Leu Thr
 35 40 45
 Val His His Ile Asp His Asp His Thr Asn Asn Pro Glu Asp Gly Ser
 50 55 60
 Asn Trp Glu Leu Leu Cys Leu Phe Cys His Asp His Glu His Ser Lys
 65 70 75 80
 Tyr Thr Glu Ala Asp Gln Tyr Gly Thr Thr Val Val Ala Gly Glu Asp
 85 90 95
 Ala Gln Lys Asp Val Gly Val Ala Thr Phe Asn Pro Phe Ala Asp Leu
 100 105 110
 Lys Ala Met Met Asp Lys Lys Lys
 115 120

<210> 10270

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 10270

Lys Thr Val Gly Cys Ala Met Ala Ile Phe Asp Gly His Asn Asp Leu
 1 5 10 15
 Leu Leu Asn Leu Trp Leu His His Arg Gln Asp Pro Val Thr Ala Leu
 20 25 30
 Phe Ser Gly Ile Glu Asn Gly His Leu Asp Tyr Pro Arg Met Gln Gln
 35 40 45
 Gly Gly Phe Ser Gly Gly Leu Phe Ala Leu Phe Val Pro Pro Gln Glu
 50 55 60
 Tyr Ile Ala Arg Met Ala Pro Gln Tyr Ala Cys Glu Pro Trp Gln Pro
 65 70 75 80
 Val Asp Ile Leu Trp Gln Gln Leu Thr Leu Leu Lys Gln Leu Val Ala
 85 90 95
 His Ser Asp Gly Arg Ala Arg Leu Cys Leu Ser Ala Ala Asp Ile Glu
 100 105 110
 Arg Cys Arg Gln Asp Lys Val Leu Ala Met Val Ala His Ile Glu Gly
 115 120 125
 Ala Gly Gly Phe Asp Gly Glu Gly Gly Asp Leu Gln Ala Leu Tyr Ala
 130 135 140
 Ala Gly Val Arg Ser Ile Gly Pro Phe Trp Asn Ile Ala Asn Arg Phe
 145 150 155 160
 Gly Thr Gly Val Asn Gly Ala Phe Pro Gly Ser Pro Asp Ser Gly Pro
 165 170 175
 Gly Leu Thr Ala Glu Gly Ile Ala Leu Ile Lys His Ala Asn Ala Leu
 180 185 190
 Asn Met Leu Ile Asp Val Ser His Met Asn Glu Lys Ala Phe Trp Asp
 195 200 205
 Thr Ala Arg His Ser Ser Ser Pro Leu Val Ala Thr His Ser Asn Ala
 210 215 220
 His Thr Leu Cys Pro Gln Pro Arg Asn Leu Thr Asp Arg Gln Leu Leu
 225 230 235 240
 Ala Ile Arg Asp Ser Gly Gly Val Ala Gly Val Asn Phe Gly Asn Ala
 245 250 255
 Phe Leu Arg Ala Asp Gly Lys Arg Asp Ser Asp Thr Pro Leu Ser Thr
 260 265 270
 Ile Val Arg His Ile Asp Tyr Leu Ile Asn Ile Met Gly Asp Asp His

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<210> 10271
<211> 281
<212> PRT
<213> Enterobacter cloacae
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Arg 1	Ala	Val	Ala	Ala 5	Ala	Ser	Arg	Pro	Cys 10	Ala	Ala	Gly	Asn	Arg 15	Ser
Glu	Leu	Gly	Arg 20	Asp	Glu	His	His	Ala 25	Ser	Gly	Leu	Thr	Met 30	His	Ile
Arg	Glu	Thr 35	Leu	Ser	Pro	Gln	Glu 40	Phe	Glu	His	Ala	Leu 45	Arg	Ala	Lys
Gly	Ala 50	Tyr	Tyr	His	Ile	His 55	His	Pro	Tyr	His	Ile 60	Ala	Met	His	Asn
Gly 65	Glu	Ala	Ser	Arg	Glu 70	Gln	Ile	Gln	Gly	Trp 75	Val	Ala	Asn	Arg	Phe 80
Tyr	Tyr	Gln	Thr	Thr 85	Ile	Pro	Leu	Lys	Asp 90	Ala	Ala	Ile	Met 95	Ala	Asn
Cys	Pro	Asp	Pro 100	His	Thr	Arg	Arg	Lys 105	Trp	Val	Gln	Arg	Ile 110	Leu	Asp
His	Asp	Gly 115	Ser	Asn	Gly	His	Asp 120	Gly	Gly	Ile	Glu	Ala 125	Trp	Leu	Gln
Leu	Gly 130	Glu	Ala	Val	Gly	Leu 135	Ser	Arg	Glu	Asp	Leu 140	Ile	Ser	Glu	Arg
His 145	Val	Leu	Pro	Gly 150	Val	Arg	Phe	Ala	Val	Asp 155	Ala	Tyr	Val	Asn	Phe 160
Ala	Arg	Arg	Ala	Asn 165	Trp	Gln	Glu	Ala	Ala 170	Cys	Ser	Ser	Leu 175	Thr	Glu
Leu	Phe	Ala	Pro 180	Gln	Ile	His	Gln	Ser 185	Arg	Leu	Asp	Ser	Trp 190	Pro	Gln
His	Tyr	Pro 195	Trp	Ile	Lys	Glu	Glu 200	Gly	Tyr	Phe	Tyr	Phe 205	Arg	Ser	Arg
Leu	Ser 210	Gln	Ala	Ser	Arg	Asp 215	Val	Glu	His	Gly	Leu 220	Glu	Leu	Ala	Lys
Arg 225	Tyr	Cys	Asp	Ser	Ala 230	Glu	Lys	Gln	Asn	Arg 235	Met	Leu	Glu	Ile	Leu 240
Gln	Phe	Lys	Leu	Asp 245	Ile	Leu	Trp	Ser	Met 250	Leu	Asp	Ala	Met 255	Thr	Met
Ala	Tyr	Ala	Leu 260	Gln	Arg	Pro	Pro	Tyr 265	His	Thr	Val	Thr	Asp 270	Lys	Ala
Ala	Trp	His 275	Thr	Thr	Arg	Leu	Val 280								

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<210> 10272
<211> 395
<212> PRT
<213> Enterobacter cloacae
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Asn Ser Cys Lys Ser Leu Ile Asn Arg Ser Gly Leu Phe Ser Val Ser
1 5 10 15

Gln Asn Lys Pro Ala Val Asn Pro Pro Leu Trp Leu Leu Ala Glu Leu
 20 25 30
 Thr Tyr Arg Cys Pro Leu Gln Cys Pro Tyr Cys Ser Asn Pro Leu Asp
 35 40 45
 Phe Ala Arg Gln Asp Gln Glu Leu Thr Thr Glu Gln Trp Ile Glu Val
 50 55 60
 Phe Arg Gln Ala Arg Ala Met Gly Ser Val Gln Ile Gly Phe Ser Gly
 65 70 75 80
 Gly Glu Pro Leu Thr Arg Lys Asp Leu Pro Glu Leu Ile Arg Ala Ala
 85 90 95
 Arg Asp Leu Gly Phe Tyr Thr Asn Leu Ile Thr Ser Gly Ile Gly Leu
 100 105 110
 Thr Glu Ser Lys Leu Asp Ala Phe Ser Glu Ala Gly Leu Asp His Ile
 115 120 125
 Gln Ile Ser Phe Gln Ala Ser Asp Glu Glu Leu Asn Ala Ala Leu Thr
 130 135 140
 Gly Asn Lys Lys Ala Phe Gln Gln Lys Leu Ala Met Ala Lys Ala Val
 145 150 155 160
 Lys Ala Arg Asp Tyr Pro Met Val Leu Asn Phe Val Leu His Arg His
 165 170 175
 Asn Ile Asp Gln Ile Asp Lys Ile Ile Glu Leu Cys Ile Glu Leu Asp
 180 185 190
 Ala Asp Asp Val Glu Leu Ala Thr Cys Gln Phe Tyr Gly Trp Ala Phe
 195 200 205
 Leu Asn Arg Gln Gly Leu Leu Pro Thr Arg Glu Gln Ile Ala Arg Ala
 210 215 220
 Glu Arg Val Val Ala Glu Tyr Arg Gln Lys Met Ala Ala Ser Gly Asn
 225 230 235 240
 Leu Thr Asn Leu Leu Phe Val Thr Pro Asp Tyr Tyr Glu Glu Arg Pro
 245 250 255
 Lys Gly Cys Met Gly Gly Trp Gly Ser Ile Phe Leu Ser Val Thr Pro
 260 265 270
 Glu Gly Thr Ala Leu Pro Cys His Ser Ala Arg Gln Leu Pro Val Asp
 275 280 285
 Phe Pro Ser Val Leu Glu Gln Ser Leu Glu Ser Ile Trp Tyr Asp Ser
 290 295 300
 Phe Gly Phe Asn Arg Tyr Arg Gly Phe Asp Trp Met Pro Glu Pro Cys
 305 310 315 320
 Arg Ser Cys Asp Glu Lys Glu Lys Asp Phe Gly Gly Cys Arg Cys Gln
 325 330 335
 Ala Phe Met Leu Thr Gly Asn Ala Asp Asn Ala Asp Pro Val Cys Ser
 340 345 350
 Lys Ser Pro His His His Lys Ile Leu Glu Ala Arg Arg Glu Ala Ala
 355 360 365
 Cys Ser Asp Met Lys Ile Gly Gln Leu Gln Phe Arg Asn Arg Thr Arg
 370 375 380
 Ser Gln Leu Ile Tyr Lys Thr Arg Glu Leu
 385 390 395

<210> 10273

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10273

Gln Gln Asp Arg Phe Arg Met Thr Asp Asn Asn Thr Ala Leu Lys Lys
 1 5 10 15
 Ala Gly Leu Lys Val Thr Leu Pro Arg Leu Lys Ile Leu Glu Val Leu
 20 25 30
 Gln Gly Pro Asp Asn His His Val Ser Ala Glu Asp Leu Tyr Lys Arg
 35 40 45

Leu Ile Asp Met Gly Glu Glu Ile Gly Leu Ala Thr Val Tyr Arg Val
 50 55 60
 Leu Asn Gln Phe Asp Asp Ala Gly Ile Val Thr Arg His Asn Phe Glu
 65 70 75 80
 Gly Gly Lys Ser Val Phe Glu Leu Thr Gln Gln His His His Asp His
 85 90 95
 Leu Ile Cys Leu Asp Cys Gly Lys Val Ile Glu Phe Ser Asp Asp Ser
 100 105 110
 Ile Glu Ser Arg Gln Arg Glu Ile Ala Ala Arg His Gly Ile Arg Leu
 115 120 125
 Thr Asn His Ser Leu Tyr Leu Tyr Gly His Cys Ala Glu Gly Asp Cys
 130 135 140
 Arg Glu Asn Glu His Ala His Asp Ala Lys
 145 150 155

<210> 10274

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10274

Arg Arg Arg Ile Ala Pro Val Leu Lys Leu Arg Lys Asn Pro Pro Glu
 1 5 10 15
 Lys Ile Glu Ala Phe Lys Ser Val Leu Asn Val Leu Lys Lys Glu Lys
 20 25 30
 Ala His Glu Gln Phe Ala Thr Gln Glu Asn Val Arg Val Met Asp Tyr
 35 40 45
 Gln Ala Cys Ile Gln Ala Arg Lys Thr Gly Asn Asp Gln Glu Val Ala
 50 55 60
 Lys Arg Cys Asp Lys Ile Trp Asn Glu Ile Arg Asn Asn Asn Lys
 65 70 75 80

<210> 10275

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 10275

Lys Ile Asp Ser Met Tyr Asn Leu Arg Met Tyr Ser Arg Ile Gly Arg
 1 5 10 15
 Arg Asn Pro Leu Tyr Ser Thr Ala Ile Gly Lys Val Leu Leu Ala Trp
 20 25 30
 Arg Asp Arg Glu Glu Val Lys Gln Ile Leu Asp Gly Val Glu Tyr Lys
 35 40 45
 Arg Ser Thr Asp Arg Thr Ile Thr Ser Thr Asp Glu Leu Leu Ser Val
 50 55 60
 Leu Asp Asn Val Arg Glu Gln Gly Tyr Gly Glu Asp Asn Glu Glu Gln
 65 70 75 80
 Glu Glu Gly Leu Arg Cys Ile Gly Val Pro Val Phe Asp Arg Phe Gly
 85 90 95
 Val Val Ile Ala Gly Leu Ser Ile Ser Phe Pro Thr Leu Arg Phe Ser
 100 105 110
 Glu Glu Arg Leu His Glu Tyr Val Ala Ile Leu His Thr Ala Ala Arg
 115 120 125
 Lys Ile Ser Glu Gln Met Gly Tyr Asn Asp Tyr Pro Phe
 130 135 140

<210> 10276

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10276

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Thr Met Ala Thr Phe His Ile Ser Phe Lys Lys Leu Arg Arg Ser Glu
1      5      10      15
Gly Lys Ser Ser Val Tyr Leu Ser Ala Tyr Gln Asn Arg Glu Lys Thr
      20      25      30
Lys Asp Asn Arg Thr Gly Ala Thr Trp Asp Tyr Ser Lys Lys Glu Gly
      35      40      45
Phe Phe Gly Ser Ala Ile Leu Ser Pro Ala Gly Thr Pro Ala Glu Leu
      50      55      60
Val Lys Asp Ser Gly Thr Leu Trp Asn Ala Val Glu Ala Gly Glu Lys
65      70      75      80
Arg Lys Asp Ala Glu Leu Cys Arg Tyr Leu Asp Ile Ala Ile Pro Lys
      85      90      95
Glu Leu Asp Asp Gly Gln Lys Lys Gln Ile Val Leu Asp Tyr Cys Gln
      100      105      110
Glu Asn Phe Val Asp Tyr Ala
      115

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<210> 10277

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10277

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Met Arg Tyr Ile His Met Ser Glu Tyr Ile Lys Val Phe Leu Ala Leu
1      5      10      15
Cys Ser Phe Val Phe Thr Gly Thr Leu Ala His Ala Ala Ser Ser Gly
      20      25      30
Thr Ile Thr Phe Thr Gly Ser Val Asn Ser Glu Thr Cys Ala Ala Val
      35      40      45
Val Asn Asn Gly Asn Ala Asp Ala Thr Val Thr Leu Pro Ala Val Pro
      50      55      60
Thr Ser Ala Leu Ser Ala Ala Gly Ala Thr Ala Gly Ala Thr Thr Phe
65      70      75      80
Thr Ile Asn Leu Thr Gly Cys Glu Phe Tyr Pro Ser Gly Ala Lys Val
      85      90      95
Gln Arg Tyr Phe Gln
      100

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<210> 10278

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10278

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Ile Met Leu Ser Ala Ala Arg Gly Glu Asp Gln Met Asn Ile Pro Tyr
1      5      10      15
Arg Phe Ala Asp Asn Gly Gly Ala Leu Glu Val Pro Ala Asp Lys Val
      20      25      30
His Glu Leu Arg Leu Arg Leu Ala Gln Gln Gly Leu Pro Lys Gly Gly
      35      40      45
Ala Val Gly Phe Glu Leu Leu Asp Gln Glu Lys Phe Gly Ile Ser Gln
      50      55      60
Phe Ser Glu Gln Val Asn Tyr Gln Arg Ala Leu Glu Gly Glu Leu Ala
65      70      75      80
Arg Thr Ile Glu Thr Leu Gly Pro Val Lys Ser Ala Arg Val His Leu
      85      90      95
Ala Met Pro Lys Pro Ser Leu Phe Val Arg Glu Gln Lys Ser Pro Ser
      100      105      110
Ala Ser Val Thr Val Asn Leu Glu Pro Gly Arg Ala Leu Val Ser Gly

```



```
<210> 10279
<211> 159
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10280
<211> 248
<212> PRT
<213> Enterobacter cloacae
```

<400>	10280															
Arg	Leu	Leu	Gly	Lys	Lys	Glu	Pro	Thr	Val	Asn	Ala	Pro	Val	Arg	Gly	
1				5					10					15		
Leu	Tyr	Met	Trp	Gly	Gly	Val	Gly	Arg	Gly	Lys	Thr	Trp	Leu	Met	Asp	
			20					25					30			
Met	Phe	Tyr	Gln	Ser	Leu	Pro	Gly	Thr	Arg	Lys	Gln	Arg	Leu	His	Phe	
			35				40					45				
His	Arg	Phe	Met	Leu	Arg	Val	His	Glu	Glu	Leu	Thr	Ala	Leu	Gln	Gly	
			50			55						60				
Glu	Thr	Asp	Pro	Leu	Glu	Ile	Val	Ala	Asp	Arg	Phe	Lys	Ala	Glu	Thr	
65					70					75					80	
Asp	Val	Leu	Cys	Phe	Asp	Glu	Phe	Phe	Val	Ser	Asp	Ile	Thr	Asp	Ala	
				85					90					95		
Met	Leu	Leu	Gly	Gly	Leu	Met	Lys	Ala	Leu	Phe	Ala	Arg	Gly	Ile	Thr	
			100					105					110			
Leu	Val	Ala	Thr	Ser	Asn	Ile	Pro	Pro	Asp	Glu	Leu	Tyr	Arg	Asn	Gly	
			115				120					125				
Leu	Gln	Arg	Ala	Arg	Phe	Leu	Pro	Ala	Ile	Asp	Ala	Ile	Lys	Gln	His	
			130			135						140				
Cys	Asp	Ile	Met	Asn	Val	Asp	Ala	Gly	Val	Asp	Tyr	Arg	Leu	Arg	Thr	
145					150					155					160	
Leu	Thr	Gln	Ala	His	Leu	Trp	Leu	Ser	Pro	Leu	Asn	Ala	Asp	Thr	Ala	
				165					170						175	

Ser Glu Met Asp Lys Leu Trp Leu Ala Leu Ala Gly Ala Pro Arg Asp
 180 185 190
 Lys Ala Pro Ala Leu Glu Ile Asn His Arg Pro Leu Ser Thr Leu Gly
 195 200 205
 Val Glu Asn Gln Thr Leu Ala Val Ser Phe Ala Thr Leu Cys Val Asp
 210 215 220
 Ala Arg Ser Gln His Asp Tyr Gly Pro Leu Ser His Leu Gly Leu Asn
 225 230 235 240
 Gln Pro Asp Arg Met Ile Tyr Gly
 245

<210> 10281

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10281

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
 50 55 60
 Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
 65 70 75 80
 Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Met
 85 90 95
 Ala Ser Gly Leu His Leu Glu Gly Ser Arg Asn Arg Glu Ser Thr Ile
 100 105 110

<210> 10282

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10282

Ile Pro Met Arg His Phe Pro Gly Leu Gly Ile Ile Ser Lys Leu Ile
 1 5 10 15
 Val Leu Phe Met Pro Ala Asp Ala Ser Met Ala Val Ile Pro Glu Leu
 20 25 30
 Thr Ser Val Pro Val Arg Ile Thr Leu Leu Val Ser Gly Ile Val Val
 35 40 45
 Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly Phe Gly Ala Gly
 50 55 60
 Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg Leu Gly Trp Ser
 65 70 75 80
 Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val Leu Ile Val Gly
 85 90 95
 Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val Leu Tyr Ala Leu
 100 105 110
 Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp Phe Arg Gln Arg
 115 120 125
 Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile Val
 130 135 140

<210> 10283

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10283

Asn	Ser	Leu	Cys	Gly	Asp	Trp	Gln	Arg	Ser	Leu	Met	Met	Ile	Thr	Met
1				5					10					15	
Ala	Lys	Asn	Leu	Gly	Phe	Ser	Lys	Ala	Thr	Leu	Arg	Lys	Val	Gly	Ala
			20					25					30		
Asn	Ser	Asp	Gly	Asp	Gly	Phe	Leu	Cys	Phe	Ala	Ala	His	Gly	Asn	Ser
		35					40					45			
Met	Glu	Pro	Val	Ile	Ala	Asp	Gly	Ser	Thr	Val	Ala	Ile	Asn	Cys	His
	50					55					60				
Asp	Lys	Arg	Ile	Val	Asp	Gly	Lys	Ile	Tyr	Gly	Ile	Asn	Gln	Gly	Gly
65				70						75				80	
Trp	Lys	Arg	Leu	Lys	Ile	Leu	Tyr	Arg	Ser	Gly	Pro	Asp	Lys	Val	Thr
			85					90						95	
Ile	Arg	Ser	Tyr	Asn	Ser	Asp	Glu	Tyr	Pro	Asp	Glu	Glu	Val	Asp	Met
			100					105					110		
Asp	Ser	Leu	Glu	Val	Leu	Gly	Arg	Leu	Phe	Trp	Val	Ser	Thr	Ile	Phe
		115					120					125			

<210> 10284

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10284

Arg	Phe	Phe	Gly	Asp	Ala	Met	Arg	Gln	Leu	Gln	Pro	Lys	Thr	Asn	Ala
1				5					10					15	
Val	Phe	Gly	Gly	Gln	Tyr	His	Ile	Ala	Gly	Arg	Asp	Val	Thr	Tyr	Glu
			20					25					30		
Pro	Ala	Thr	Gln	Ala	Asp	Gly	Gln	Phe	Ala	Ala	Lys	Gly	Glu	Val	Ile
		35					40					45			
Thr	Ala	Lys	Trp	Val	Glu	Ala	Glu	Gln	Leu	Phe	Gly	Cys	Leu	Arg	Gln
	50					55					60				
Phe	Asn	Gly	Asp	Val	Ser	Leu	Gln	Pro	Gly	Leu	Val	His	Arg	Ala	Asn
65				70					75					80	
Gly	Gly	Leu	Leu	Leu	Ile	Ser	Leu	Arg	Thr	Leu	Leu	Ala	Gln	Pro	Leu
			85					90						95	
Leu	Trp	Met	Arg	Leu	Lys	Thr	Val	Val	Thr	Gln	Gln	Arg	Phe	Asp	Trp
			100				105						110		
Val	Gly	Tyr	Asp	Asp	Ser	Arg	Pro	Leu	Pro	Val	Ser	Ile	Pro	Ser	Met
		115					120					125			
Pro	Leu	Ser	Met	Thr	Val	Val	Leu	Thr	Gly	Asp	Arg	Glu	Ser	Leu	Ala
	130					135					140				
Asp	Leu	Gln	Glu	Met	Glu	Pro	Glu	Leu	Ala	Glu	Gln	Ala	Val	Tyr	Ser
145				150					155					160	
Glu	Phe	Glu	Asp	Asn	Ile	Gln	Ile	Ala	Asp	Ala	Asp	Asp	Met	Ala	Gln
			165					170						175	
Trp	Cys	Gln	Trp	Val	Met	Ala	Val	Ala	Glu	Arg	Phe	Ala	Leu	Pro	Ser
			180				185						190		
Pro	Ala	Glu	Asp	Ala	Trp	Pro	Gly	Leu	Ile	Arg	Glu	Ala	Val	Arg	Tyr
		195					200					205			
Thr	Gly	Asp	Gln	Glu	Thr	Leu	Pro	Leu	Cys	Pro	Leu	Trp	Ile	Gly	Lys
	210					215					220				
Gln	Leu	Arg	Glu	Val	Gly	Val	Ile	Ser	Gly	Asn	Gly	Pro	Phe	Thr	Gly
225				230						235					240
Glu	Gln	Leu	Ser	Gln	Met	Leu	Ala	Gln	Arg	Glu	Trp	Arg	Glu	Gly	Tyr
			245					250						255	
Leu	Ala	Asp	Arg	Met	Gln	Asp	Glu	Ile	Leu	Leu	Glu	Gln	Ile	Leu	Val
			260					265					270		

Glu	Thr	Glu	Gly	Glu	Arg	Ile	Gly	Gln	Ile	Asn	Ala	Leu	Ser	Val	Ile
		275					280					285			
Glu	Phe	Pro	Gly	His	Pro	Arg	Ala	Phe	Gly	Glu	Pro	Ser	Arg	Ile	Ser
	290					295					300				
Cys	Val	Val	His	Ile	Gly	Asp	Gly	Glu	Phe	Thr	Asp	Ile	Glu	Arg	Lys
305					310					315					320
Ala	Glu	Leu	Gly	Gly	Asn	Ile	His	Ala	Lys	Gly	Met	Met	Ile	Met	Gln
				325					330					335	
Ala	Phe	Leu	Met	Ser	Glu	Leu	Gln	Leu	Glu	Gln	Gln	Ile	Pro	Phe	Ser
			340					345					350		
Ala	Ser	Leu	Thr	Phe	Glu	Gln	Ser	Tyr	Ser	Glu	Val	Asp	Gly	Asp	Ser
		355					360					365			
Ala	Ser	Met	Ala	Glu	Leu	Cys	Ala	Val	Ile	Ser	Ala	Leu	Ala	Asp	Val
		370				375					380				
Pro	Ile	Asn	Gln	Asn	Ile	Ala	Ile	Thr	Gly	Ser	Val	Asp	Gln	Phe	Gly
385				390						395					400
Arg	Ala	Gln	Pro	Val	Gly	Gly	Leu	Asn	Glu	Lys	Ile	Glu	Gly	Ser	Ser
			405						410					415	
Gln	Ser	Ala	Ser	Ser	Pro	Thr	Gly	Ala	Gly	Arg	Ser	Cys	Ala		
			420					425					430		

<210> 10285

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 10285

Arg	Arg	Val	Ser	Pro	Leu	Cys	Arg	Leu	Ser	Asn	Phe	Ser	Leu	Gly	Gln
1				5					10					15	
Arg	Thr	Leu	Leu	Lys	Phe	Cys	Pro	Val	Cys	Ala	Arg	Glu	Asp	Thr	Phe
			20					25					30		
His	Tyr	Gly	Val	Thr	Tyr	Trp	His	Leu	Ala	His	Gln	Leu	His	Gly	Val
		35					40					45			
Thr	Thr	Cys	His	Arg	His	Pro	Val	Ala	Leu	Glu	Ser	Ile	His	Val	Pro
		50				55					60				
Ser	Ser	Pro	His	Ile	Arg	Ile	Gly	Leu	Met	Pro	Pro	Val	Ser	Tyr	Thr
65				70					75					80	
Glu	Gln	Leu	Ser	Asn	Glu	Ile	Asp	Phe	Asp	Phe	Ala	Lys	Phe	Cys	Tyr
				85					90					95	
Glu	Ser	Leu	Asn	Ile	Ile	Arg	Arg	Lys	Asp	Ile	Thr	His	Pro	Asn	Tyr
			100					105					110		
Met	Asp	Val	Leu	Lys	Lys	Leu	Asn	Leu	Leu	Ser	Leu	Asp	Gly	Asn	Leu
		115					120					125			
Lys	Lys	Asn	Val	Phe	Tyr	Ala	His	Val	Tyr	Ala	Lys	Cys	Gln	Leu	Phe
		130				135					140				
Gly	Glu	Gly	Ser	Ser	Gly	Leu	Ile	Pro	Thr	Ser	Leu	Thr	Asp	Tyr	His
145					150					155					160
Tyr	Trp	Glu	Pro	Ile	Leu	Lys	Asp	Lys	Cys	Cys	Gln	His	Pro	Thr	Lys
				165					170					175	
His	Leu	Leu	Leu	Cys	Tyr	Cys	Leu	Leu	Asn	Thr	Cys	Trp	Pro	Thr	Tyr
			180					185					190		
Ala	Gly	Ser	Arg	Thr	Asn	Lys	Lys	Lys	Glu	Ile	Phe	Lys	Ser	His	Lys
		195					200					205			
Lys	Tyr	Ser	Phe	His	Ile	Val	Glu	Asn	Asn	Thr	Ser	Val	Ser	Asn	Leu
		210				215					220				
Gly	Lys	Glu	Phe	Ser	Arg	Ser	Arg	Cys	Tyr	Ile	Lys	Thr	Leu	Ile	Tyr
225					230					235					240
Lys	Lys	Tyr	Leu	Arg	Ala	Phe	Lys	Arg	Asn	Thr	Lys	Ile	Asn	Ile	Phe
				245					250					255	
Thr	Glu	Leu	Leu	Ile	Lys	Ser	Met	Ala	Val	Arg	Gly	Phe	Ser	Leu	Ala
			260					265						270	

Ser Ile Ala Glu Lys Asn Ser Leu Ser Glu Gly Ala Val Ser Ser Val
 275 280 285
 Ile Ser Ser Cys Tyr Gly Leu Cys Ser Trp Arg Lys Lys Cys Lys Lys
 290 295 300
 Asp Ser Leu Arg Arg Arg His Lys Gln Lys Ile Leu Arg Phe Ile His
 305 310 315 320
 Asn Gln Ser Val Ser Ile Thr Arg Lys Leu Val Asn Leu His Asp Gly
 325 330 335
 Ala Glu Arg Lys Arg Ala Thr
 340

<210> 10286

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10286

Thr Leu Gln Pro Val Val Lys Met Ser Glu Lys Arg Ala Gln Ser Val
 1 5 10 15
 Val Asp Tyr Leu Val Ser Lys Gly Ile Pro Ala Asn Lys Ile Ser Pro
 20 25 30
 Arg Gly Met Gly Glu Ser Asn Pro Val Thr Gly Ser Thr Cys Asp Asn
 35 40 45
 Val Lys Pro Arg Ala Ala Leu Ile Asp Cys Leu Ala Pro Asp Arg Arg
 50 55 60
 Val Glu Ile Glu Val Lys Gly Ile Lys Asp Val Val Thr Gln Pro Ala
 65 70 75 80
 Ala

<210> 10287

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10287

Thr Glu Leu His Gly Asn Thr Glu Ile Ala Met Lys Tyr Gln Gln Leu
 1 5 10 15
 Glu Asn Leu Glu Ser Gly Trp Lys Trp Lys Tyr Leu Val Lys Lys His
 20 25 30
 Arg Glu Gly Glu Leu Ile Thr Cys Tyr Ile Glu Ala Ser Ala Ala Gln
 35 40 45
 Glu Ala Val Asp Met Leu Leu Thr Leu Glu Asn Glu Pro Val Leu Val
 50 55 60
 Asn Gly Trp Ile Glu Lys His Ile Asn Pro Ala Leu Leu Asn Arg Met
 65 70 75 80
 Lys Gln Thr Ile Arg Ala Arg Arg Lys Arg His Phe Asn Ala Glu His
 85 90 95
 Gln His Thr Arg Lys Lys Ser Ile Asp Leu Glu Phe Met Val Trp Gln
 100 105 110
 Arg Leu Ala Gly Leu Ala Gln Arg Arg Gly Lys Thr Leu Ser Glu Thr
 115 120 125
 Val Val Gln Leu Ile Glu Asp Ala Glu His Lys Glu Lys Tyr Ala Ser
 130 135 140
 Gln Met Ser Thr Leu Lys Asn Asp Leu Gln Ala Leu Leu Gly Lys Lys
 145 150 155 160

<210> 10288

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10288

```

Ile Ser Lys Gln Ile Lys Ile Ile Gly Glu Ala Ala Arg Arg Asp Tyr
1      5      10      15
Asn Val Thr Glu Val Ala Asn Met Leu Tyr Thr Phe Pro Val Gly Pro
20      25      30
Gly Phe Gln Pro Arg Gly Asn Ile Pro Ala Ser His Gly Arg Arg Glu
35      40      45
Phe Arg Val Leu Glu Ile Phe Ile Pro Ser Ala Ala Ser Ala Cys Trp
50      55      60
Val
65

```

<210> 10289

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 10289

```

Gly Ile Gly Asp Phe Tyr Pro Val Arg Gly Lys Arg Leu Leu Gly Met
1      5      10      15
Thr Glu Pro Gly Lys Ala Leu Leu Thr Ile Ala Glu Arg Ile Leu Asn
20      25      30
Glu Ala Gly Asn Val Arg Arg Leu Ala Asp Leu Phe Thr Asn Asp Ala
35      40      45
Ser Gly Val Met Thr Ile Ala Thr Thr His Thr Gln Ala Arg Tyr Ser
50      55      60
Leu Pro Thr Val Ile Lys Ala Phe Arg Glu Ile Phe Pro Asp Val Arg
65      70      75      80
Leu Glu Leu Ile Gln Gly Thr Pro Gln Glu Ile Glu Val Leu Met His
85      90      95
Asn Gly Gly Ala Asp Ile Gly Ile Ala Ser Glu Arg Leu Ser Asn Asp
100      105      110
Pro Leu Leu Val Ala Phe Pro Trp Phe Arg Trp His His Ser Leu Leu
115      120      125
Leu Pro Ala Asp His Pro Leu Asn Gln Val Ser Pro Leu Thr Leu Glu
130      135      140
Glu Ile Val Lys Trp Pro Leu Ile Thr Tyr Arg Gln Gly Ile Thr Gly
145      150      155      160
Arg Ser Arg Ile Asp Glu Ala Phe Lys Arg Lys Gly Leu Thr Pro Asp
165      170      175
Val Val Leu Ser Ala Gln Asp Ser Asp Val Ile Lys Thr Tyr Val Glu
180      185      190
Leu Gly Leu Gly Ile Gly Leu Val Ala Glu Gln Ser Gly Gly Glu Tyr
195      200      205
Glu Ala Gly Asn Leu Val Arg Leu Asp Thr Arg His Leu Phe Asp Ala
210      215      220
Asn Thr Val Trp Leu Gly Leu Lys Arg Gly Gln Leu Gln Arg Lys Tyr
225      230      235      240
Val Trp Arg Phe Ile Glu Leu Cys Asn Ala Gly Leu Ser Val Asp Glu
245      250      255
Ile Lys Arg Gln Val Met Glu Pro Glu Glu Val Ala Ile Asp Tyr Gln
260      265      270
Ile

```

<210> 10290

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10290

```

Asp Thr Val Glu Ser Met Val Arg Ala Leu Arg Thr Gly Asn Tyr Ser
1      5      10      15
Val Val Ile Gly Trp Leu Pro Glu Asp Leu Ser Gln Glu Glu His Leu
20      25      30
Arg Leu Thr Glu Ala Ala Glu Glu Gly Asn Ala Met Gly Phe Ile Met
35      40      45
Arg Pro Val Arg Gly Asp Ser Tyr Arg Arg Gly Gln His Pro Gly Leu
50      55      60
Lys Ile His Ser Asn Val Tyr His
65      70

```

<210> 10291

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10291

```

Ile Thr Gln Ile Phe Met Glu Phe Ile Met Phe Lys Ser Ile Met Thr
1      5      10      15
Val Ser Leu Leu Ala Ala Ala Ile Ala Ser Thr Ser Ala Val Ala Ala
20      25      30
Asp Asn Ser Ala Gly Gly Ile Ile Asn Phe Thr Gly Ala Ile Thr Asp
35      40      45
Thr Thr Cys Thr Ile Asn Gly Gly Lys Ser Ala Asp Phe Thr Val Ala
50      55      60
Leu Ser Pro Ile Ser Val Lys Asp Ala Gly Thr Thr Val Gly Leu Ile
65      70      75      80
Thr Lys Asn Lys Lys Ser Ile Ala Leu Thr Phe Ser Gly Cys Ser Pro
85      90      95
Ala Ala Gly Thr Thr Gly Thr Pro Leu Lys Val Tyr Phe Ser Ser Ala
100      105      110
Asp Asn Ile Ser Thr Asp Gly Lys Tyr Leu Leu Asn Asn Ser Val Asn
115      120      125
Glu Ser Asp Ala Ser Val Ala Arg Asn Val Gly Phe Ala Leu
130      135      140

```

<210> 10292

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 10292

```

Gly Ser Gly Pro Ala Leu Lys Pro Arg Leu Arg Ser Ile Gly Ala Ala
1      5      10      15
Val Asp Pro Arg Arg Asp Arg Pro Arg Ala Pro Val Thr Ala Arg Ile
20      25      30
Gly Ala Arg Gly Val Pro Ala Arg Phe Asp Arg Thr Ser Thr His Arg
35      40      45
Arg Gly Met Leu Ala Lys Val His Ile Ala Lys Val Gln Leu Gly Met
50      55      60
Ser Asp Asp Asp Tyr Val Ala Val Leu Leu Arg Ala Thr Gly Arg Thr
65      70      75      80
Ser Ala Ala Glu Cys Thr Asp Arg Glu Leu Asp Asp Ala Leu Arg Glu
85      90      95
Phe Lys Arg Leu Gly Phe Glu Pro Gln Ala Arg Ser Pro Lys Ala Ala
100      105      110
Lys Pro Ala Asp His Pro Leu Ala Leu Lys Ala Arg Ala Leu Trp Ile
115      120      125

```

Ser Leu His His Leu Cys Ala Ile Ala Asp Pro Ser Glu Lys Ala Leu
 130 135 140
 Glu Ala Phe Ala Arg Arg Gln Leu Gly Cys Asp Arg Leu Gln Trp Ala
 145 150 155 160
 Asn Gln Ser Gln Gly His Arg Leu Ile Glu Ala Leu Lys Ala Ile Ala
 165 170 175
 Ala Arg His Gly Trp Asn Leu Ala Met Asp Gly Val Lys Pro Glu Ala
 180 185 190
 Val Leu Ile Val Thr Lys Arg Arg Leu Val Asp Ala Ile Ala Arg Gln
 195 200 205
 Ala Ala Arg Ala Arg His Arg Ala Gly Arg Val Glu Arg Ala Glu Asp
 210 215 220
 Arg Thr Ala Ala Asp Arg Asp Arg Gly Arg Leu Asp Pro Val Arg Asn
 225 230 235 240
 Arg Arg Gly Thr Gly Pro His Arg Pro Gly Ala Pro Ala Pro Ser Cys
 245 250 255
 Gly Arg Arg Trp Arg Pro Gly Tyr Asp Arg Ala Arg His Pro Arg Ile
 260 265 270
 Cys Arg Ala Val Ser Arg Ala Ala Leu Pro Gly Met Trp Pro Leu
 275 280 285
 Ala Leu Ala Gly Arg Thr Val Leu Gly Gly Met Arg Met Val Pro Pro
 290 295 300
 Arg Ala Ala Pro Cys Ala Gly Arg Ala Gly Ala Asp Arg Gly Met Thr
 305 310 315 320
 Thr Gln Thr Gln Ile Val Ser Arg Asn Glu Gln Ile Glu Glu Leu Ala
 325 330 335
 Ala Arg Pro Val Phe
 340

<210> 10293

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10293

Cys Cys Leu Arg Val Leu Ala Ala Ala Arg Arg Pro Ala Val Phe Leu
 1 5 10 15
 Ala Arg Val Leu Val Glu Arg Phe Pro Leu Cys Leu Gly Phe Leu Gly
 20 25 30
 Leu Val Ser Phe Gly Ala Gly Gly Leu Tyr Ile Gly Leu Arg Thr Ile
 35 40 45
 Pro Val Ile Phe Asp Ile Ile Lys Asp Val Glu Asp Ile Cys Pro Asn
 50 55 60
 Ala Trp Val Ile Asn Phe Thr Asn Pro Ala Gly Met Val Thr Glu Ala
 65 70 75 80
 Val Tyr Arg His Thr Gly Phe Lys Arg Phe Ile Gly Val Cys
 85 90

<210> 10294

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10294

Ile Ala Phe Pro Ala Ser Pro Val Gly Leu Arg His Leu Lys Val Ser
 1 5 10 15
 Val Ile Arg Phe Leu Val Phe Pro Val Cys Glu Phe Trp Leu Val Asp
 20 25 30
 Val Asp Asp Gly Leu Glu Leu Leu Ile Phe Phe Phe Val Leu Cys Phe
 35 40 45
 Arg Leu Val Asp Phe Ala Gly Val Pro Phe Ser Leu Leu Phe Ser Leu

50		55		60	
Val Arg Arg Leu Ala Leu Phe Asp Ala Val Phe Val Ser Ser Leu Leu					
65		70		75	80
Arg Val Gly Leu Leu Phe Phe Trp Arg Val Cys Trp Ser Ser Ala Phe					
	85		90		95
Arg Cys Ala Ser Val Phe Trp Ala Trp Phe Pro Ser Gly Leu Val Ala					
	100		105		110
Cys Ile					
115					

<210> 10295

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10295

Phe Ala Asn Gln Arg Glu Arg Gln Ser Leu Phe Phe Ser Thr Thr Phe					
1	5		10		15
Glu Val Met Gly His Leu Thr Lys Ser Lys Gly Arg Val Thr Glu Ala					
	20		25		30
Asp Ile Gln Val Ala Ser Val Phe Met Asp Arg Met Asn Leu His Gly					
	35		40		45
Glu Ser Arg Ile Ala Ala Gln Asn Ala Phe Arg Ile Gly Lys Ser Asp					
	50		55		60
Asn Tyr Pro Leu Arg Glu Lys Met Arg Gln Phe Arg Ser Ile Cys Phe					
	65		70		75
Gly Arg Phe Asp Leu Ile Arg Met Phe Leu Glu Ile Gln Ile Gln Ala					
	85		90		95
Ala Phe Ala Asp Gly Ser Leu His Pro Asn Glu Arg Asp Val Leu Tyr					
	100		105		110
Val Ile Ala Glu Glu Leu Gly Ile Ser Arg Met Gln Phe Asp Gln Phe					
	115		120		125
Leu Arg Met Met Gln Gly Gly Ala Gln Phe Gly Gly Gly Tyr Gln Gln					
	130		135		140
Gln His Ser Ser Gly Gly Trp Gln Gln Ala Gln Arg Gly Pro Thr Leu					
	145		150		155
Glu Asp Ala Cys Asn Val Leu Gly Val Lys Pro Ser Asp Asp Val Thr					
	165		170		175
Thr Ile Lys Arg Ala Tyr Arg Lys Leu Met Ser Glu His His Pro Asp					
	180		185		190
Lys Leu Val Ala Lys Gly Leu Pro Pro Glu Met Met Glu Met Ala Lys					
	195		200		205
Gln Lys Ala Gln Glu Ile Gln Lys Ala Tyr Glu Leu Ile Lys Glu Gln					
	210		215		220
Lys Gly Phe Lys					
225					

<210> 10296

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 10296

Ala Gly Val Asn Val Pro Asp Ser Val Phe Tyr Thr Ser Ala Met Ala					
1	5		10		15
Thr Ala Asp Phe Leu Lys Arg Gln Glu Gly Lys Lys Ala Tyr Val Val					
	20		25		30
Gly Glu Gly Ala Leu Ile His Glu Leu Tyr Lys Ala Gly Phe Thr Ile					
	35		40		45
Thr Asp Val Asn Pro Asp Phe Val Ile Val Gly Glu Thr Arg Ser Phe					
	50		55		60

```

Asn Trp Glu Met Met His Lys Ala Ala Tyr Phe Val Ala Asn Gly Ala
65          70          75          80
Arg Phe Ile Ala Thr Asn Pro Asp Thr His Gly Arg Gly Phe Tyr Pro
          85          90          95
Ala Cys Gly Ala Leu Cys Ala Gly Ile Glu Lys Ile Ser Gly Arg Lys
          100          105          110
Pro Phe Val Val Gly Lys Pro Ser Pro Trp Ile Ile Arg Ala Ala Leu
          115          120          125
Asn Thr Met Gln Ala His Ser Glu Glu Thr Val Ile Val Gly Asp Asn
          130          135          140
Leu Arg Thr Asp Ile Leu Ala Gly Phe Gln Ala Gly Leu Glu Thr Ile
145          150          155          160
Leu Val Leu Ser Gly Val Ser Gln Leu Asp Asp Ile Asp Thr Met Pro
          165          170          175
Phe Arg Pro Ser Trp Ile Tyr Pro Ser Val Asp Glu Ile Asp Val Ile
          180          185          190

```

<210> 10297

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10297

```

Asn Ala Cys Ala Pro Ser Pro Phe Cys Gly Ile Phe Ile Ser Lys Gln
1          5          10          15
His His Asn Ala Thr Gly Leu Thr Glu Lys Val Met Cys Ser Ile Phe
          20          25          30
Gly Val Leu Asp Ile Lys Thr Asp Ala Gly Glu Leu Arg Lys Lys Ala
          35          40          45
Leu Glu Leu Ser Arg Leu Met Arg His Arg Gly Pro Asp Trp Ser Gly
          50          55          60
Val Tyr Ala Ser Asp Lys Ala Ile Leu Ala His Glu Arg Leu Ser Ile
65          70          75          80
Val Asp Val His Ala Gly Ala Gln Pro Leu Tyr Asn Glu Lys Lys Thr
          85          90          95
Pro Ala Leu Ala Val Lys Arg Glu Ile Tyr Gln His Gln Ala Leu Pro
          100          105          110
Pro Glu
          115

```

<210> 10298

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 10298

```

Arg Leu Ile Met Lys Tyr Gln Phe Phe Trp Ser Ser Thr Pro Lys Ile
1          5          10          15
Tyr Glu Leu Leu Leu Asn Leu Thr Ile Gly Ile Ala Ile Ile Asn Tyr
          20          25          30
Leu Val Pro Thr Glu Gln Gly Lys Ile Gly Phe Leu Ile Asn Leu Cys
          35          40          45
Met Leu Leu Ser Phe Leu Thr Leu Gly Ile Gly Pro Val Phe Ser
          50          55          60
Asn Phe Val Ser Arg Ser Asn Asn Tyr Asn Leu Ile Ser Gly Lys Phe
65          70          75          80
Lys Asp Ser Ile Ser Leu Arg Phe Cys Gly Tyr Ile Val Phe Leu Val
          85          90          95
Ile Ser Phe Leu Leu Ile Tyr Ile Ile Lys Pro Asn Leu Leu Ile Leu

```

```
<210> 10299
<211> 198
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10300
<211> 329
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10300
Thr Leu Ile Phe Gln Pro Pro Cys Val Lys Ile Leu Phe Leu Ala Ser
1      5      10      15
Leu Leu Phe Met Ala Pro Ala Ala Phe Ala Ala Thr Thr Trp Pro Leu
20      25      30

```

Thr Ile Glu Asn Cys Gly Val Lys Gln Thr Phe Thr Gln Ala Pro Gln
 35 40 45
 Arg Val Val Thr Val Gly Gln His Glu Thr Glu Leu Leu Ala Leu
 50 55 60
 Gly Leu Glu Lys Thr Ile Ala Ala Thr Ser Val Trp Phe Gly Thr Leu
 65 70 75 80
 Pro Pro Thr Leu Glu Asp Ala Gly Lys Asn Leu Pro Arg Leu Ala Asp
 85 90 95
 Tyr Ser Pro Ser Phe Glu Ala Val Val Gly Gln Lys Pro Glu Leu Val
 100 105 110
 Leu Ala Gln Tyr His Trp His Ile Gly Pro Gln Gly Glu Val Gly Thr
 115 120 125
 Arg Glu Gln Phe Ala Ser Leu Gly Ile Asn Thr Trp Ile Ser Pro Ala
 130 135 140
 Asp Cys Thr Asp Lys Thr Val Thr Glu Thr Ser Asn Ala Asp Gly Ala
 145 150 155 160
 Arg Ser Ala Pro Phe Ser Leu Ala Glu Ile Thr Arg Glu Val Thr Asp
 165 170 175
 Leu Ala Thr Ile Phe Asp Val Ser Ala Arg Gly Glu Gln Leu Asn Arg
 180 185 190
 Ala Leu Ala Glu Arg Ile Lys Lys Ala Gln Ala Arg Ala Ser Ala Lys
 195 200 205
 Gln Leu Ser Val Val Phe Trp Phe Ser Ser Ser Arg Leu Asn Gly Asp
 210 215 220
 Pro Trp Val Ala Gly Asn Tyr Gly Ala Pro Gly Trp Ile Ser Arg Thr
 225 230 235 240
 Leu Gly Leu Lys Asn Ile Ile Asp Ser His Asp Glu Trp Pro Ala Val
 245 250 255
 Thr Trp Glu His Ile Ala Arg Ser Gln Pro Asp Val Ile Val Ile Ala
 260 265 270
 Gly Met Ser Arg Arg Leu Tyr Pro Ala Asp Glu Val Glu Val Lys Lys
 275 280 285
 Ala Phe Leu Arg Ser Asp Pro Val Thr Lys Asn Met Pro Ala Val Arg
 290 295 300
 Asn Asn His Ile Ile Val Val Pro Ala Met Ser Leu Asn Pro Ser Leu
 305 310 315 320
 Arg Asn Val Asp Ala Val Glu Leu Ile
 325

<210> 10301

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10301

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn
 35 40 45
 Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
 50 55 60
 Met Gly Val Gly Cys Lys Arg Ser Arg
 65 70

<210> 10302

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 10302

Pro Lys Arg Arg Pro Ser Gly Ala Met Glu Leu Asp Asn Ala Asn Asn
 1 5 10 15
 Val Gly Gly Tyr Pro Gly Tyr Ser Ile Thr Asn Leu Ala Pro Phe Leu
 20 25 30
 Gln Ala Arg Tyr Asp Ile Asp Ala Ile Thr Leu Ser Gly Gly Val Arg
 35 40 45
 Tyr Gln Tyr Thr Glu Asn Lys Val Asp Asp Phe Val Gly Tyr Ala Gln
 50 55 60
 Gln Gln Ala Ile Ala Thr Gly Lys Ala Thr Ser Ala Asp Ala Val Pro
 65 70 75 80
 Gly Gly Lys Thr Asp Tyr Asn Asn Phe Leu Phe Asn Ala Gly Ile Leu
 85 90 95
 Gly Arg Leu Thr Glu Gln Gln Gln Leu Trp Phe Asn Phe Ser Gln Gly
 100 105 110
 Phe Glu Ile Pro Asp Leu Ala Lys Tyr Tyr Gly Ser Gly Thr Tyr Gln
 115 120 125
 Leu Val Asp Gly His Tyr Arg Leu Gln Asn Ser Val Asn Val Asn Asp
 130 135 140
 Ser Thr Leu Asp Gly Ile Lys Val Asn Ala Tyr Glu Leu Gly Trp Arg
 145 150 155 160
 Phe Thr Gly Asp Asn Leu Arg Thr Gln Val Ala Ala Tyr Tyr Ser Leu
 165 170 175
 Ser Asp Lys Thr Ile Thr Ile Asn Lys Ser Asp Met Thr Ile Asn Leu
 180 185 190
 Glu Asp Asp Lys Arg Arg Ile Tyr Gly Val Glu Gly Gln Val Asp Tyr
 195 200 205
 Phe Phe Thr Asp Ser Asp Trp Ser Thr Gly Ala Asn Phe Asn Ala Ile
 210 215 220
 Lys Ser Glu Thr Arg Glu Asn Gly Lys Trp Glu Lys Leu Thr Val Asp
 225 230 235 240
 Ser Ala Ser Pro Ser Lys Ala Ser Ala Trp Val Asn Trp Ala Pro Gly
 245 250 255
 Asp Trp Thr Leu Arg Val Gln Ser Thr Gln Thr Phe Asp Val Ser Asp
 260 265 270
 Ala Asp Gly Lys Lys Ile Asp Gly Tyr Asn Thr Val Asp Phe Leu Gly
 275 280 285
 Ser Tyr Ala Leu Pro Val Gly Lys Val Ser Phe Ser Val Glu Asn Leu
 290 295 300
 Leu Asp Lys Asp Tyr Thr Thr Ala Trp Gly Gln Arg Ala Pro Gly Leu
 305 310 315 320
 Tyr Ser Pro Thr Tyr Gly Ala Pro Gly Leu Ser Thr Tyr Val Phe Ser
 325 330 335
 Thr Arg Arg Pro Arg Ile Arg Arg Lys
 340 345

<210> 10303

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 10303

Arg Asn Asn Lys Ile Gln Arg Met Lys Lys Arg Ile Pro Thr Leu Leu
 1 5 10 15
 Asp Thr Met Ile Gly Thr Ala Leu Tyr Ser Gln Gln Gly Leu Ala Ala
 20 25 30
 Asp Leu Ala Ser Gln Cys Met Leu Gly Val Pro Ser Tyr Asn Arg Pro

```
<210> 10304
<211> 122
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10305
<211> 267
<212> PRT
<213> Enterobacter cloacae
```

<400> 10305															
Asp	Ser	Gly	His	Tyr	Asn	Lys	Ser	Leu	Gly	Trp	Leu	Ser	Leu	Phe	Ala
1				5					10					15	
Gly	Thr	Val	Leu	Leu	Ser	Gly	Cys	Asp	Ser	Ala	Leu	Leu	Asp	Pro	Lys
			20					25					30		
Gly	Gln	Ile	Gly	Leu	Glu	Gln	Arg	Ser	Leu	Ile	Leu	Thr	Ala	Phe	Gly
		35					40					45			
Leu	Met	Leu	Ile	Val	Val	Ile	Pro	Ala	Ile	Leu	Met	Ala	Val	Gly	Phe
	50					55					60				
Ala	Trp	Lys	Tyr	Arg	Ala	Ser	Asn	Lys	Asp	Ala	Lys	Tyr	Ser	Pro	Asn
65					70					75					80

Trp Ser His Ser Asn Lys Val Glu Ala Val Val Trp Thr Val Pro Ile
 85 90 95
 Leu Ile Ile Leu Phe Leu Ala Val Leu Thr Trp Lys Thr Thr His Ala
 100 105 110
 Leu Glu Pro Ser Lys Pro Leu Val His Asp Glu Lys Pro Ile Thr Ile
 115 120 125
 Glu Val Val Ser Met Asp Trp Lys Trp Phe Phe Ile Tyr Pro Glu Gln
 130 135 140
 Gly Ile Ala Thr Val Asn Glu Ile Ala Phe Pro Ala Asn Thr Pro Val
 145 150 155 160
 Gln Phe Lys Val Thr Ser Asn Ser Val Met Asn Ser Phe Phe Ile Pro
 165 170 175
 Arg Leu Gly Ser Gln Ile Tyr Ala Met Ala Gly Met Gln Thr Asn Leu
 180 185 190
 His Leu Ile Ala Asn Glu Ala Gly Thr Tyr Asp Gly Ile Ser Ala Ser
 195 200 205
 Tyr Ser Gly Pro Gly Phe Ser Gly Met Lys Phe Lys Ala Ile Ala Thr
 210 215 220
 Pro Asp Arg Ala Thr Phe Asp Gln Trp Val Ala Lys Ala Lys Gln Ser
 225 230 235 240
 Thr Asn Thr Met Ser Asp Met Ala Ala Phe Glu Lys Val Ala Ala Pro
 245 250 255
 Ser Glu Tyr Asn Lys Gly Gly Val Leu Leu
 260 265

<210> 10306

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10306

Pro Ala Thr Gly Leu Phe Pro Gln Trp Ser Arg Cys Pro Gly Thr Gly
 1 5 10 15
 Gly Val Asp Leu Arg Gln Ser Gly Ala Ile Leu Met Lys Arg Val Ala
 20 25 30
 Phe Val Phe Thr Ser Ala Pro His Gly Ser Ala Ser Gly Arg Glu Gly
 35 40 45
 Leu Asp Ala Leu Leu Ala Thr Ser Ala Leu Thr Glu Asp Ile Gly Val
 50 55 60
 Phe Phe Leu Gly Asp Gly Val Phe Gln Leu Leu Ala Gly Gln Gln Pro
 65 70 75 80
 Gln Ala Ile Leu Ala Arg Asp Tyr Ile Ala Thr Phe Lys Val Leu Pro
 85 90 95
 Leu Tyr Asp Ile Glu Thr Phe Tyr Val Cys Ala Asp Ser Leu Ala Ala
 100 105 110
 Arg Gly Leu Asn Glu Lys Thr Pro Phe Val Leu Asp Val Thr Ile Leu
 115 120 125
 Thr Ser Ala Ala Leu Arg Glu Gln Leu Ser His Tyr Asp Thr Val Leu
 130 135 140
 Thr Phe
 145

<210> 10307

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10307

Ile Ile Pro Pro Gly Ser Lys Ser Gly Asp Phe Ser Trp Asp Lys Thr
 1 5 10 15
 Ser Asn Ala Phe Cys Val Asn Gly Asp Gly Pro Arg Arg Thr Val Pro

```
<210> 10308
<211> 205
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10309
<211> 130
<212> PRT
<213> Enterobacter cloacae
```

<400> 10309
Arg Arg Ala Leu Ile Asp His Arg Leu Lys Pro Leu Glu Leu Thr Gln
1 5 10 15
Thr His Trp Val Thr Leu His Asn Ile His Gln Leu Pro Pro Asp Gln
20 25 30

Ser Gln Ile Gln Leu Ala Lys Ala Ile Gly Ile Glu Gln Pro Ser Leu
 35 40 45
 Val Arg Thr Leu Asp Gln Leu Glu Glu Lys Gly Leu Ile Ser Arg Gln
 50 55 60
 Thr Cys Ala Ser Asp Arg Arg Ala Lys Arg Ile Lys Leu Thr Glu Lys
 65 70 75 80
 Ala Ala Pro Ile Ile Thr Glu Met Glu Thr Val Ile Ser Lys Thr Arg
 85 90 95
 Gly Glu Ile Leu Ala Gly Ile Ser Pro Ala Glu Leu Glu Met Leu Ile
 100 105 110
 Gly Leu Ile Ala Arg Leu Glu Gln Asn Ile His Asp Leu Gln Ser Arg
 115 120 125
 Asp
 130

<210> 10310

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 10310

Arg Leu Glu Gly Ser Lys Thr His Arg Glu Trp Arg Val Pro Val Val
 1 5 10 15
 Arg Gln Leu Arg Leu Arg Leu Gln Leu Leu Leu Ser Arg Ala Thr Glu
 20 25 30
 Ala Gly Ala Gly Pro Lys Asp Asn Leu Phe Asp Val Ser Phe Tyr Ile
 35 40 45
 Ala Gly Arg Lys Ala Lys Phe Glu Arg Asn Asp Val Ser Val Met His
 50 55 60
 Gln Lys Ile Arg Ser Phe Phe Arg Arg Leu Ser Lys Glu Cys Gly Phe
 65 70 75 80
 Ala Val Ser Pro His Arg Phe Arg His Thr Leu Ala Thr Glu Leu Met
 85 90 95
 Lys Ala Pro Glu Arg Asn Leu Gln Leu Val Lys Asp Leu Leu Gly His
 100 105 110
 Arg Ser Val Ser Thr Thr Met Glu Tyr Val Glu Leu Arg Met Asp Ile
 115 120 125
 Val Gly Lys Thr Leu Glu Glu Glu Leu Ser Leu His Thr Asp Leu Cys
 130 135 140
 Val Glu Arg Glu Leu Gln Leu Leu Thr Gln Asn
 145 150 155

<210> 10311

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10311

Ser Trp Asn Pro Asn Glu Leu Leu Thr Gly Lys Thr Glu Cys Asn Lys
 1 5 10 15
 Cys Glu Glu Ala Ser Pro Gly Asn Val Thr Leu Lys Thr Ile Glu Gly
 20 25 30
 Val Val Arg Asn Val Pro Phe Tyr Gly Glu Ile Ala Gly Ser Arg Val
 35 40 45
 Lys Lys Gly Pro Trp Trp Leu Ile Ile Leu Lys Arg Trp Leu Gln Lys
 50 55 60
 Ser Leu Thr Arg Gly Phe Ser His Phe Asn Pro Asp Gln Tyr Asn Gly
 65 70 75 80
 Ala Cys Leu Leu Gly Leu Arg Gly Ile Val Ile Lys Ser His Gly Ala
 85 90 95
 Ala Asn Gln Arg Ala Phe Thr Val Ala Ile Glu Gln Ala Val Gln Ala

			100					105					110				
Val	Gln	Arg	Gln	Val	Pro	Gln	Arg	Ile	Ala	Ala	Arg	Leu	Gly	Ser	Val		
		115					120					125					
Leu	Ala	Lys	Ser	Asp													
		130															

<210> 10312

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10312

Ala	Tyr	Met	Tyr	Thr	Lys	Ile	Leu	Gly	Thr	Gly	Ser	Tyr	Leu	Pro	Lys		
1				5					10					15			
Gln	Val	Arg	Thr	Asn	Ala	Asp	Leu	Glu	Lys	Met	Val	Asp	Thr	Ser	Asp		
		20						25					30				
Glu	Trp	Ile	Val	Thr	Arg	Thr	Gly	Ile	Arg	Glu	Arg	Arg	Ile	Ala	Ala		
		35					40					45					
Pro	Asp	Glu	Thr	Val	Ser	Thr	Met	Gly	Tyr	Glu	Ala	Ala	Gln	Arg	Ala		
	50					55					60						
Leu	Glu	Met	Ala	Gly	Ile	Asp	Lys	Glu	Gln	Ile	Gly	Leu	Ile	Val	Val		
65					70					75					80		
Ala	Thr	Thr	Ser	Ala	Thr	His	Ala	Phe	Pro	Ser	Ala	Ala	Cys	Gln	Val		
				85					90					95			
Gln	Asn	Met	Leu	Gly	Ile	Lys	Gly	Cys	Pro	Ala	Phe	Asp	Val	Ala	Ala		
		100					105						110				
Ala	Cys	Ala	Gly	Phe	Thr	Tyr	Ala	Leu	Ser	Ile	Ala	Asp	Gln	Tyr	Val		
	115						120					125					
Lys	Ser	Gly	Ala	Val	Lys	Tyr	Ala	Leu	Val	Ile	Gly	Ala	Asp	Val	Leu		
	130					135					140						
Ala	Arg	Thr	Cys	Asp	Pro	Thr	Asp	Arg	Gly	Thr	Ile	Ile	Ile	Phe	Gly		
145					150					155					160		
Asp	Val	Leu	Pro	Ser	Pro	Trp	Lys	Ile	Arg	Ile	Cys	Val					
				165					170								

<210> 10313

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 10313

Gln	Val	Thr	Val	Thr	Asn	Asp	Asn	Gly	Lys	Leu	Asp	Ile	Arg	Leu	Thr		
1				5					10					15			
Gly	Pro	Trp	Arg	Glu	Val	Ile	Met	Trp	Glu	Val	Pro	Leu	Leu	Ala	Val		
		20						25					30				
Ile	Ser	Glu	Leu	Ala	His	Arg	Tyr	Arg	Ser	Pro	Glu	Thr	Gly	Val	Thr		
		35					40					45					
Gln	Ala	Val	Ala	Ala	Leu	Glu	Asn	Lys	Leu	Val	Glu	Phe	Ser	Arg	Leu		
	50					55					60						
Thr	Glu	Gly	Leu	Asp	Met	Ser	Arg	Phe	Arg	Leu	Met	Asp	Phe	Gly	Thr		
65				70						75					80		
Arg	Arg	Arg	Phe	Ser	Arg	Glu	Val	Gln	Glu	Ala	Ile	Val	Arg	Arg	Leu		
				85					90					95			
Gln	Gln	Glu	Pro	Trp	Phe	Val	Gly	Thr	Ser	Asn	Tyr	Asp	Leu	Ala	Arg		
		100					105						110				
Arg	Leu	Asp	Leu	Thr	Pro	Met	Gly	Thr	Gln	Ala	His	Glu	Trp	Phe	Gln		
	115						120					125					
Ala	His	Gln	Gln	Ile	Ser	Pro	Asp	Leu	Ala	Asn	Ser	Gln	Arg	Ala	Ala		
	130					135					140						
Leu	Ala	Ala	Trp	Leu	Glu	Glu	Tyr	Pro	Asp	Arg	Leu	Gly	Ile	Ala	Leu		
145					150					155					160		

Thr Asp Cys Ile Thr Met Asp Ala Phe Leu Arg Asp Phe Gly Pro Glu
 165 170 175
 Phe Ala Glu Arg Tyr Gln Gly Leu Arg His Asp Ser Gly Asp Pro Val
 180 185 190
 Glu Trp Gly Glu Lys Ala Ile Ala His Tyr Glu Lys Leu Gly Ile Asp
 195 200 205
 Pro Met Ser Lys Val Leu Val Phe Ser Asp Asn Leu Asp Leu Ser Lys
 210 215 220
 Ala Val Asp Leu Tyr Arg His Phe Ser Ser Arg Val Asn Leu Ser Phe
 225 230 235 240
 Gly Ile Gly Thr Arg Leu Thr Cys Asp Ile Pro Gln Val Lys Pro Leu
 245 250 255
 Asn Ile Val Ile Lys Leu Val
 260

<210> 10314

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10314

Thr Ser Asp Gln Thr Val Thr Thr Gln Lys Gln Gln Ile Glu Glu Ala
 1 5 10 15
 Gly Tyr Gln Val Ser Lys Cys Phe Thr Asp Glu Ala Val Ser Gly Gly
 20 25 30
 Ile Lys Asp Thr Glu Arg Lys Gly Phe Ser Asp Leu Leu Asn Tyr Val
 35 40 45
 Arg Glu Gly Asp Thr Leu Val Val Ile Gly Ile Asp Arg Leu Gly Arg
 50 55 60
 Asn Thr Ile Asp Val Leu Ser Thr Val Glu Thr Leu Gln Ala Lys Gly
 65 70 75 80
 Val Lys Val Ile Ser Leu Arg Glu Gly Phe Asp Leu Ser Thr Pro Val
 85 90 95
 Gly Lys Ala Met Leu Thr Met Met Ala Gly Leu Ala Ser Leu Glu Lys
 100 105 110
 Asp Leu Ile Ala Glu Arg Arg Thr Ala Gly Ile Lys Arg Ala Gln Ser
 115 120 125
 Glu Gly Val His Cys Gly Arg Pro Ile Lys Ala Thr Thr Glu Gln Val
 130 135 140
 Gln Glu Leu Ile Ala Gln Gly Tyr Phe Pro Ala Gln Val Gln Glu Glu
 145 150 155 160
 Leu Gly Ile Ser Lys Ala Thr Phe Tyr Arg Leu Asn Lys
 165 170

<210> 10315

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 10315

Cys Met Asn Leu Ile Ser Ile Ser Ala Phe Gln Asp Asn Tyr Ile Trp
 1 5 10 15
 Val Leu Val Asp Asp Asp Arg Arg Cys Ile Ile Val Asp Pro Gly Glu
 20 25 30
 Ser Ala Pro Ile Leu His Ala Ile Lys Glu Asn Gly Trp Gln Pro Glu
 35 40 45
 Ala Ile Leu Leu Thr His His His His Asp His Val Gly Gly Val Pro
 50 55 60
 Asp Leu Leu Ala Arg Tyr Pro His Leu Pro Val Tyr Gly Pro Ala Glu
 65 70 75 80
 Thr Gln Asp Lys Gly Thr Thr Gln Val Val Glu Glu Gly Glu Ser Ile

				85					90					95			
Leu	Ile	Leu	Gly	Trp	Glu	Phe	Ser	Val	Phe	Ala	Thr	Pro	Gly	His	Thr		
			100					105					110				
Ser	Gly	His	Leu	Cys	Leu	Tyr	Ser	Lys	Pro	Tyr	Leu	Phe	Cys	Gly	Asp		
		115					120					125					
Thr	Leu	Phe	Ser	Gly	Gly	Cys	Gly	Arg	Leu	Phe	Glu	Gly	Thr	Pro	Glu		
	130				135						140						
Gln	Met	Tyr	Gln	Ser	Leu	Gln	Lys	Ile	Asn	Ala	Leu	Pro	Ala	Asp	Thr		
145					150					155					160		
Val	Ile	Cys	Cys	Ala	His	Glu	Tyr	Thr	Leu	Gly	Asn	Met	Lys	Phe	Ala		
			165						170					175			
Ala	Ser	Val	Leu	Pro	Glu	Asp	Arg	Ala	Ile	Gln	Asp	Tyr	Tyr	Leu	Lys		
			180					185					190				
Val	Lys	Glu	Leu	Arg	Ala	Lys	Asn	Leu	Lys	Thr	Leu	Pro	Val	Met	Ser		
		195					200					205					
Ser	Leu	Gln	Arg	Ala	Arg	Ser	His										
	210					215											

<210> 10316

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 10316

Asp	Ser	Cys	Ile	Thr	Ser	Tyr	Ser	Val	Ala	Gly	Val	Leu	Met	Lys	Pro		
1				5					10					15			
Ala	Arg	Ile	Pro	Gln	Thr	Val	Ala	Pro	Pro	Glu	Arg	Trp	Ala	Glu	Leu		
			20					25					30				
Pro	Trp	Gly	Glu	Tyr	Tyr	Arg	Glu	Ala	Leu	Glu	Leu	Gln	Leu	Lys	Pro		
	35						40					45					
Trp	Leu	Ala	Lys	Met	Asn	Gly	Phe	His	Leu	Leu	Lys	Ile	Gly	Asn	Leu		
	50					55					60						
Ser	Ala	Glu	Ile	Asn	Thr	Glu	Ser	Cys	Ala	Ile	Ser	His	Gln	Val	Ser		
65				70					75					80			
Val	Ser	Leu	Asn	Gly	Ser	Pro	Val	Gln	Val	Lys	Ala	Asp	Pro	Met	His		
				85				90					95				
Leu	Pro	Phe	Ala	Glu	Lys	Ser	Ile	Asp	Ala	Cys	Leu	Leu	Ala	His	Thr		
			100					105					110				
Leu	Pro	Trp	Cys	Ser	Asp	Pro	His	Arg	Leu	Leu	Arg	Glu	Ala	Asp	Arg		
		115					120					125					
Pro	Leu	Ile	Val	Val	Val	Asp	Gln	Pro	Val	Asp	Trp						
	130					135					140						

<210> 10317

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 10317

Ser	Gln	Ala	Phe	Val	Arg	Asn	Tyr	Gly	Tyr	Glu	Leu	Ala	His	Arg	Val		
1				5					10					15			
Ile	Cys	Ala	Leu	Arg	Ala	Ala	Leu	Val	Glu	Lys	Ser	Met	Asn	Asp	Glu		
			20					25					30				
Met	Lys	Asn	Lys	Ser	Gly	Lys	Val	Lys	Val	Met	Tyr	Val	Arg	Ser	Asp		
	35						40					45					
Asp	Asp	Ser	Asp	Lys	Arg	Thr	Gln	Asn	Pro	Arg	Thr	Gly	Lys	Gly	Gly		
	50					55					60						
Gly	Arg	Pro	Ala	Ser	Ser	Arg	Ala	Asp	Gly	Gly	Arg	Arg	Pro	Ala	Arg		
65				70					75					80			
Asp	Asp	Arg	Asn	Asn	Arg	Gly	Asp	Asp	Arg	Lys	Arg	Asp	Asp	Arg	Lys		
				85				90						95			

Arg Asp Asp Arg Lys Arg Asp Asp Phe Val Arg Asp Gly Gly Ser Pro
 100 105 110
 Trp Arg Thr Val Ser Arg Ala Pro Gly Glu Glu Thr Thr Glu Lys Ala
 115 120 125
 Asp His Gly Gly Ile Ser Gly Lys Ser Phe Ile Asp Pro Glu Val Leu
 130 135 140
 Arg Arg Gln Arg Ala Glu Glu Thr Arg Val Tyr Gly Glu Asn Ala Cys
 145 150 155 160
 Gln Ala Leu Phe Gln Ser Arg Pro Glu Cys Ile Val Arg Ala Trp Phe
 165 170 175
 Ile Gln Ser Val Thr Pro Arg Phe Lys Glu Ala Leu Arg Trp Met Ala
 180 185 190
 Ala Asn Arg Lys Ala Tyr His Val Val Asp Asp Ala Glu Leu Thr Lys
 195 200 205
 Ala Ser Gly Thr Glu His His Gly Gly Val Cys Phe Leu Ile Lys Lys
 210 215 220
 Arg Asn Gly Thr Thr Val Gln Gln Trp Val Ser Gln Ala Asp Ala Asp
 225 230 235 240
 Asp Cys Val Leu Ala Leu Glu Asp Val Gly Asn Pro His Asn Leu Gly
 245 250 255
 Ala Met Met Arg Ser Cys Ala His Phe Gly Val Lys Gly Val Leu Leu
 260 265 270
 Gln Asp Ala Ala Leu Leu Glu Ser Gly Ala Ala
 275 280

<210> 10318

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10318

Met Lys Thr Phe Thr Ala Lys Pro Glu Thr Val Gln Arg Asp Trp Tyr
 1 5 10 15
 Val Val Asp Ala Thr Gly Lys Thr Leu Gly Arg Leu Ala Thr Glu Leu
 20 25 30
 Ala Arg Arg Leu Arg Gly Lys His Lys Ala Glu Tyr Thr Pro His Val
 35 40 45
 Asp Thr Gly Asp Tyr Ile Ile Val Leu Asn Ala Asp Lys Val Ala Val
 50 55 60
 Thr Gly Asn Lys Arg Thr Asp Lys Met Tyr Tyr His His Thr Gly His
 65 70 75 80
 Ile Gly Gly Ile Lys Glu Ala Thr Phe Glu Glu Met Ile Ala Arg Arg
 85 90 95
 Pro Glu Arg Val Ile Glu Ile Ala Val Lys Gly Met Leu Pro Lys Gly
 100 105 110
 Pro Leu Gly Arg Ala Met Phe Arg Lys Leu Lys Val Tyr Ala Gly Asn
 115 120 125
 Glu His Asn His Ala Ala Gln Gln Pro Gln Val Leu Asp Ile
 130 135 140

<210> 10319

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10319

Ala Met Ala Glu Asn Gln Tyr Tyr Gly Thr Gly Arg Arg Lys Ser Ser
 1 5 10 15
 Ala Ala Arg Val Phe Ile Lys Pro Gly Ser Gly Lys Ile Val Ile Asn
 20 25 30
 Gln Arg Ser Leu Glu Gln Tyr Phe Gly Arg Glu Thr Ala Arg Met Val

```

      35      40      45
Val Arg Gln Pro Leu Glu Leu Val Asp Met Val Glu Lys Leu Asp Leu
  50      55      60
Tyr Ile Thr Val Lys Gly Gly Ile Ser Gly Gln Ala Gly Ala Ile
  65      70      75      80
Arg His Gly Ile Thr Arg Ala Leu Met Glu Tyr Asp Glu Ser Leu Arg
      85      90      95
Ser Glu Leu Arg Lys Ala Gly Phe Val Thr Arg Asp Ala Arg Gln Val
      100      105      110
Glu Arg Lys Lys Val Gly Leu Arg Lys Ala Arg Arg Arg Pro Gln Phe
      115      120      125
Ser Lys Arg
      130

```

<210> 10320

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10320

```

Thr Ser Val Arg Gln Leu Arg Pro Asp Ala Ala Leu Ala Ser Ile Lys
1      5      10      15
Ser Thr Val Leu Val Ile Ala Val His Gln Ser Ile Gly Ala Gly Ile
      20      25      30
Ala Leu Ala Ile Pro Leu Thr Ala Ala Gly Gln Val Leu Thr Ile Ile
      35      40      45
Val Arg Thr Ile Thr Val Ala Phe Gln His Ala Ala Asp Lys Ala Ala
      50      55      60
Glu Asn Gly Asn Leu Thr Ala Leu Ser Trp Ile His Val Ser Ser Leu
  65      70      75      80
Phe Leu Gln Ala Met Arg Ile Ala Ile Pro Ala Val Ile Val Ala Ile
      85      90      95
Ser Val Gly Thr Ser Glu Val Gln Gly Met Leu Asn Ala Ile Pro Glu
      100      105      110
Val Val Thr Ser Gly Leu Asn Ile Ala Gly Gly Met Ile Val Val Val
      115      120      125
Gly Tyr Ala Met Val Ile Asn Met Met Arg Ala Gly Tyr Leu Met Pro
      130      135      140
Phe Phe Tyr Leu Gly Phe Val Thr Ala Ala Phe Thr Asn Phe Asn Leu
  145      150      155      160
Val Ala Leu Gly Val Ile Gly Ala Val Met Ala Ile Leu Tyr Ile Gln
      165      170      175
Leu Ser Pro Lys Tyr Asn Arg Val Ala Gly Ala Pro Ala Gln Ala Ala
      180      185      190
Gly Asn Asn Asp Leu Asp Asn Glu Leu Asp
      195      200

```

<210> 10321

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10321

```

Gln Val Ser Glu Met Val Asp Met Thr Lys Thr Thr Thr Glu Lys Lys
1      5      10      15
Leu Thr Pro Gly Asp Ile Arg Gly Val Phe Ile Arg Ser Asn Leu Phe
      20      25      30
Gln Gly Ser Trp Asn Phe Glu Arg Met Gln Ala Leu Gly Phe Cys Phe
      35      40      45
Ser Met Val Pro Ala Ile Lys Arg Leu Tyr Pro Glu Asn Asn Glu Ala
      50      55      60

```

Arg Arg Gln Ala Ile Lys Arg His Leu Glu Phe Phe Asn Thr His Pro
 65 70 75 80
 Tyr Val Ala Ala Pro Val Leu Gly Val Thr Leu Ala Met Glu Glu His
 85 90 95
 Arg Ala Asn Gly Ala Glu Ile Asp Asp Gly Ala Ile Asn Gly Ile Lys
 100 105 110
 Val Gly Leu Met Gly Pro Leu Ala Gly Val Gly Asp Pro Ile Phe Trp
 115 120 125
 Gly Thr Val Arg Pro Val Phe Ala Ala Leu Gly Ala Gly Ile Ala Met
 130 135 140
 Ser Gly Ser Leu Leu Gly Pro Leu Leu Phe Phe Ile Leu
 145 150 155

<210> 10322

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10322

Ser Val Gly Leu Arg Val Ser Ser Gly Cys Met Arg Met Asn Ala Pro
 1 5 10 15
 Asp Ile Lys Ala Leu Phe Glu Gln Val Arg Val Gly Thr Arg Val Gln
 20 25 30
 Ile Ile Asn Glu Pro Val Lys Phe Ser Val Glu Pro Asp Gly Lys Arg
 35 40 45
 Tyr Ile Glu Val His Arg Pro Leu Ala Gln Ala Glu Gly Glu Asn Pro
 50 55 60
 Gln Thr Val Pro Phe Thr His Ser Ala Ala Phe Thr Ala Phe Ala Ala
 65 70 75 80
 Glu Ser Gly Ser Asp Lys Thr Leu Ile Asp Lys Ala Leu Ala Arg Arg
 85 90 95
 Ala Gly Ile Pro Val Ala Val Ser Thr Gly Asn Gly Ser Ser Ala Ser
 100 105 110
 Asn Ser Val Leu Ser Val Gln Asn Ser Arg Val Ser Ala Ala Val Ala
 115 120 125
 Glu Asp Glu Gly Glu Lys Ala Leu Gln
 130 135

<210> 10323

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10323

Leu Leu Ala Leu Thr Ala Ile Arg Tyr Thr Pro Leu Cys Tyr Phe Ile
 1 5 10 15
 Asn Thr Glu Gly Leu Ser Cys Met Tyr Gln Asp Leu Ile Arg Asn Glu
 20 25 30
 Leu Asn Glu Ala Ala Glu Thr Leu Ala Asn Phe Leu Lys Asp Asp Ala
 35 40 45
 Asn Ile His Ala Ile Gln Arg Ala Ala Val Leu Leu Ala Asp Ser Phe
 50 55 60
 Lys Ala Gly Gly Lys Val Leu Ser Cys Gly Asn Gly Gly Ser His Cys
 65 70 75 80
 Asp Ala Met His Phe Ala Glu Glu Leu Thr Gly Arg Tyr Arg Glu Asn
 85 90 95
 Arg Pro Gly Tyr Pro Ala Ile Ala Ile Ser Asp Val Ser His Ile Ser
 100 105 110
 Cys Val Gly Asn Asp Phe Gly Tyr Asp His Ile Phe Ser Arg Tyr Val
 115 120 125
 Glu Ala Val Gly Arg Glu Gly Asp Val Leu Leu Gly Ile Ser Thr Ser

130		135		140
Gly Asn Ser Ala Asn Val Ile Lys Ala Ile Ala Ala Arg Glu Lys				
145		150		155
Gly Met Lys Val Ile Thr Leu Thr Gly Lys Asp Gly Gly Lys Met Asp				
		165		170
Gly Thr Ala Asp Ile Glu Ile Arg Val Pro His Phe Gly Tyr Ala Asp				
		180		185
Arg Val Gln Glu Ile His Ile Lys Val Ile His Ile Leu Ile Gln Leu				
		195		200
Ile Glu Lys Glu Met Val Lys				205
210		215		

<210> 10324

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 10324

Arg Arg Phe Ser Ala Ile Pro Leu Val Asp Tyr Phe Tyr Gly Leu Val				
1	5		10	15
Val Val Ile Trp Gly Thr Thr Trp Ile Ala Ile Phe Leu Gln Gly				
	20		25	30
Pro Val Ala Ala Pro Val Ser Ile Phe Trp Arg Phe Ala Val Ala Ser				
	35		40	45
Ala Thr Met Met Ile Val Leu Val Ala Leu Arg Arg Leu Arg Arg Leu				
	50		55	60
Ala Leu Arg Asp His Leu Tyr Cys Met Leu Gln Gly Cys Cys Val Phe				
	65		70	75
Cys Phe Asn Phe Trp Cys Phe Tyr Thr Ala Ala Ala His Ile Asn Thr				
	85		90	95
Gly Leu Glu Ser Val Ile Phe Ser Met Ala Val Leu Tyr Asn Ala Ile				
	100		105	110
Asn Ser Phe Ile Phe Phe Gly Gln Arg Pro Pro Ala Arg Phe Trp Thr				
	115		120	125
Ala Ala Ala Leu Gly Leu Ile Gly Ile Ile Thr Leu Phe Trp Asn Asp				
	130		135	140
Leu Leu Ala Ser Gly Trp Ser Ala Ser Leu Leu Thr Gly Ile Gly Leu				
	145		150	155
Ser Ala Leu Gly Thr Tyr Gly Phe Ser Leu Gly Asn Met Ile Ser Met				
	165		170	175
Arg His Gln Arg Asn Gly Met Glu Thr Met Thr Thr Asn Ala Trp Ala				
	180		185	190
Met Leu Tyr Gly Thr Val Val Met Gly Leu Ile Ala Leu Phe Arg Gly				
	195		200	205
Asp Asn Phe Met Pro Glu Trp Thr Val Ser Tyr Met Gly Ala Met Leu				
	210		215	220
Tyr Leu Ala Leu Phe Gly Ser Val Ile Ala Phe Gly Ala Tyr Phe Thr				
	225		230	235
Leu Val Gly Arg Ile Gly Pro Gly Lys Ala Ala Tyr Ser Thr Leu Leu				
	245		250	255
Phe Pro Ala Gly Gly Ala Val Asp Phe Asn Gly Val Thr Arg Leu Pro				
	260		265	270
Phe Gly Ile Leu Thr Gly Phe Ser Gly Cys Phe Leu Ile Ile Gly Gly				
	275		280	285
His Phe				
290				

<210> 10325

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10325

```

Lys Lys Asn Thr Met Phe Gln Gln Glu Val Thr Ile Thr Ala Pro Asn
1      5      10      15
Gly Leu His Thr Arg Pro Ala Ala Gln Phe Val Lys Glu Ala Lys Gly
20      25      30
Phe Thr Ser Glu Ile Thr Val Thr Ser Asn Gly Lys Ser Ala Ser Ala
35      40      45
Lys Ser Leu Phe Lys Leu Gln Thr Leu Gly Leu Thr Gln Gly Thr Val
50      55      60
Val Thr Ile Ser Ala Glu Gly Glu Asp Glu Gln Lys Ala Val Glu His
65      70      75      80
Leu Val Lys Leu Met Ala Glu Leu Glu
85      90

```

<210> 10326

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 10326

```

Gly Arg Val Met Ile Ser Gly Ile Leu Ala Ser Pro Gly Ile Ala Phe
1      5      10      15
Gly Lys Ala Leu Leu Leu Lys Glu Asp Glu Ile Val Ile Asp Arg Lys
20      25      30
Lys Ile Ser Ala Asp Lys Val Asp Gln Glu Val Glu Arg Phe Leu Ser
35      40      45
Gly Arg Ala Lys Ala Ser Ala Gln Leu Glu Ala Ile Lys Thr Lys Ala
50      55      60
Gly Glu Thr Phe Gly Glu Lys Glu Ala Ile Phe Glu Gly His Ile
65      70      75      80
Met Leu Leu Glu His Glu Glu Leu Glu Gln Glu Ile Ile Ala Leu Ile
85      90      95
Lys Asp Lys Gly Met Thr Ala Asp Ala Ala Ala His Glu Val Ile Glu
100      105      110
Gly Gln Ala Ser Ala Leu Glu Glu Leu Asp Asp Glu Tyr Leu Lys Glu
115      120      125
Arg Ala Ala Asp Val Arg Asp Ile Gly Lys Arg Leu Leu Arg Asn Ile
130      135      140
Leu Gly Leu Ala Ile Ile Asp Leu Ser Ala Ile Gln Asp Glu Val Ile
145      150      155      160
Leu Val Ala Ala Asp Leu Thr Pro Ser Glu Thr Ala Gln Leu Asn Leu
165      170      175
Asn Lys Val Leu Gly Phe Ile Thr Asp Ala Gly Gly Arg Thr Ser His
180      185      190
Thr Ser Ile Met Ala Arg Ser Leu Glu Leu Pro Ala Ile Val Gly Tyr
195      200      205
Gly Ser Val Thr Ser Gln Val Lys Asn Asn His Tyr Leu Ile Leu Asp
210      215      220
Ala Val Lys Asn Val Val Tyr Val Asn Pro Thr Asn Asp Val Ile Asp
225      230      235      240
His Cys Ala Pro Val Gln Glu Gln Val Gly Thr Glu Lys Asn Glu Leu
245      250      255
Ala Lys Thr Glu Lys Phe Ala Asn His Pro Ala Trp Asn Gly Phe Arg
260      265      270
Leu Lys Leu Cys Ala Asn Ile Arg Tyr Gly
275      280

```

<210> 10327

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10327

Asn His Asn Pro Thr Leu Leu Val Thr Asp Ile Glu Lys Asn Pro Val
 1 5 10 15
 Asn Leu Leu Glu Phe Ser His Gln Leu Asn Gln Met Leu Asn Cys Phe
 20 25 30
 Leu Leu Val Phe Thr Phe Ser Gly Asp Gly Asn Asn Gly Thr Leu Ser
 35 40 45
 Gln Ala Gln Ser Leu Gln Leu Glu Gln Ala Phe Cys Ala Ser Ala Phe
 50 55 60
 Ala Val Gly Ser His Ser Asp Phe Arg Ser Glu Ala Phe Arg Phe Phe
 65 70 75 80
 Asn Lys Leu Ser Ser Arg Ala Gly Val Gln Thr Val Arg Ser Gly Asn
 85 90 95
 Gly Asn Phe Leu Leu Glu His Cys Ile Phe Leu Leu Pro Ala Gly Leu
 100 105 110
 Glu Asp Leu Cys Ser Arg Asp
 115

<210> 10328

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10328

Leu Ser Ala Asp Ala Ala Ser Pro Val Val Lys Ile Pro Glu Ile Asn
 1 5 10 15
 Gln Ile Thr Ile Ala Lys Phe Phe Ser Gly Gln Gly Leu Ser Leu Met
 20 25 30
 Gly Ala Ala Leu Ile Tyr Glu Met Val Leu Lys Ala His Asp Ala Met
 35 40 45
 Thr Asp Leu Ile Trp Asn Glu Tyr Glu Val Lys Thr Met Asn Gly
 50 55 60

<210> 10329

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10329

Asp Glu His Met Arg Ala Ser Ala Thr Arg Ser Glu Asp Leu Gly His
 1 5 10 15
 Pro Glu Asn Lys Ser Glu Leu Ala Trp Asn Glu Asn Lys Lys Trp Lys
 20 25 30
 Lys Asn Gln Glu Ser Leu Leu Leu Asn Gly Val Glu Ile Pro Ile Val
 35 40 45
 Ser Leu Asp Tyr Glu Ile Glu Ile Asn Gln Glu Ile Gly Asn Tyr Asn
 50 55 60
 Ala Phe Lys Asp Thr Cys Tyr Leu Glu Asn Tyr Arg
 65 70 75

<210> 10330

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10330

Gly Gly Thr Leu Thr Gly Leu Leu Phe Glu Gln Ile Glu Glu Arg Lys
 1 5 10 15
 Met Ser Tyr Leu Glu Tyr Ile Asn Glu Val Lys Val Ser Gly Ile Val

```
<210> 10331
<211> 66
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10332
<211> 123
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10333
<211> 86
<212> PRT
<213> Enterobacter cloacae
```

<400> 10333

Arg Phe Leu Ser Met Val Ala Glu Thr Gly Trp Ile Asn Ala Ala Arg
 1 5 10 15
 Cys Leu Thr Trp Arg Asn Gln Phe Trp Cys Glu Val Asn Val Gly Ile
 20 25 30
 Glu Thr Ile Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly
 35 40 45
 Ala Phe Gly Leu Gly His Ile Arg Gly Thr Ser Lys Ala Gln Ala Lys
 50 55 60
 Ala Asp Gln Gln Arg Thr Glu Asp Asn Ala Ala Thr Val Ala Ala
 65 70 75 80
 Ala Glu Arg Arg Val
 85

<210> 10334

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10334

Val Asn Ser Lys Gly Lys Ala Phe Asp Val Lys Leu Glu Ala Tyr Ala
 1 5 10 15
 Leu Ser Glu Asn Asp Gly Lys Asn Gly Ile Arg Gly Thr Leu Ile Ser
 20 25 30
 Arg Asn Gly His Ala Ile Ala Gly Ala Ala Phe Ala Gly Gly Leu Ser
 35 40 45
 Ser Leu Ala Gly Ser Leu Ser Pro Ser Lys Val Ser Ser Phe Tyr Ile
 50 55 60
 Asp Pro Tyr Ser Gln Ala Gln Tyr Gln Ser Pro Asn Phe Gly Ala Leu
 65 70 75 80
 Gly Ala Leu Ala Gly Val Gly Ala Ala Gln Gly Gly Leu Asn Arg Leu
 85 90 95
 Val Asp Tyr Tyr Thr Ala Ile Ala Glu Gln Gln Trp Pro Ile Val Glu
 100 105 110
 Ile Ser Pro Gly Arg Ala Ile Thr Phe Val Val Gln Thr Gly Thr Thr
 115 120 125
 Ile Pro Thr Asn Leu Thr Ser Arg
 130 135

<210> 10335

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10335

Met Asp Ser Leu Glu Lys Lys Glu Ser Pro Glu Ser Ala Gly Pro Glu
 1 5 10 15
 Ile Thr Lys Lys Met Val Arg Glu Arg Thr Thr Lys Lys Ile Thr Phe
 20 25 30
 Glu Ile Asp Ile Glu Lys Ile Leu Lys Tyr Leu Phe Phe Phe Ala Phe
 35 40 45
 Ala Val Leu Val Ile Ile Tyr Gly Tyr Lys Gly Phe Met Asn Val Tyr
 50 55 60
 Asp Tyr Phe Asn Lys Gln Ser Gln Pro Ser Tyr Lys Ile Ala Val Leu
 65 70 75 80
 Asp Met Pro Glu Leu Arg Lys Glu Phe Phe Lys His His Gly Gly Arg
 85 90 95
 Thr Ala Asp Asn Asp Arg Ser Gln Phe Glu Glu Tyr Phe Arg Thr Leu
 100 105 110
 Met Lys Ile Tyr Arg Asp Arg Gly Tyr Leu Ile Ile Asp Ala Thr Leu
 115 120 125

Ala Val Thr Val Pro Asp Ser Val Glu Ile Val Thr Tyr Met Glu Leu
 130 135 140
 Glu Asp Ser Ser Glu Ala Val Gln Ser Ser Ser Tyr Asn Ala Lys Lys
 145 150 155 160

<210> 10336

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10336

Thr Phe Thr Asn Phe Phe Arg Lys Asp Phe Leu Phe Trp Gln Ile Leu
 1 5 10 15
 His Gly His Tyr Ser Ala Leu Cys Asn Leu Ile Gln Ser Val Thr Lys
 20 25 30
 Pro Glu Glu Glu Ile Val Ile Phe Ser Thr Gly Asn Leu Phe Asp Tyr
 35 40 45
 Gly Pro Glu Pro Ile Glu Leu Met Lys Ala Ile Asn Ser Gly Phe Phe
 50 55 60
 Asp Gly Arg Phe Val Arg His Phe Ser Ala Ala Gly Ala Gly Glu Glu
 65 70 75 80
 Met Leu Lys Lys Leu Leu Pro Leu Asn Lys Asp Arg Arg Thr Phe Tyr
 85 90 95
 Pro Ser Thr Tyr Leu Asn Glu Arg Trp Cys Val Met Gly Gly Lys Trp
 100 105 110
 His Lys Ala Val Asn Arg Tyr Tyr Leu Glu Glu Glu Val Lys Lys Leu
 115 120 125
 Leu Asn Thr Gln Leu Gly Thr Met Met Gln Ile Leu Leu Lys Gly Asp
 130 135 140
 Ile Lys Ile Gly Val Cys Pro Ser Asp Tyr Ala Pro Ile Arg Thr Ser
 145 150 155 160
 Phe Thr Asp Thr Tyr Asn Ala Leu Gln Ala Phe Asn Tyr Ala Asn Val
 165 170 175
 Asn Ile Phe Gln Ser Gln Phe Leu Phe Gly Met Asp His Ala Val Ile
 180 185 190
 Pro Met Met Ile Asn Asp Val Asn Leu Met Val Leu Gly Arg Asn Pro
 195 200 205
 Val Asn Ser Ile Arg Lys Ala His Gly Arg Thr Gln Asn Asn Leu Pro
 210 215 220
 Val Leu Ile Gly Asn Cys Leu His Ile Asn Thr Gly Ser Leu Tyr Met
 225 230 235 240
 Ser Lys Leu Glu Asp Gln Val Ile Val Ala Pro Gly Ile Pro Gln Thr
 245 250 255
 Asp Ser Pro Ala Leu Thr Leu Val Glu Ile Ile Met Lys Asn Asn Pro
 260 265 270
 Val Leu Leu Cys His Gln Leu Ile Gln Thr Thr Asn Lys Phe Tyr Ser
 275 280 285
 Leu Lys Thr Tyr Pro Leu Glu Leu Asp Ser Ile Glu Asn Asn Ile Glu
 290 295 300
 Val Thr Arg
 305

<210> 10337

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10337

Thr Arg Val Arg Asn Pro Leu Met Asp Ile Arg Lys Ile Lys Lys Leu

```

1           5           10           15
Ile Glu Leu Val Glu Glu Ser Gly Ile Ser Glu Leu Glu Ile Ser Glu
20          25          30
Gly Glu Glu Ser Val Arg Ile Ser Arg Ala Ala Pro Ala Ala Ser Phe
35          40          45
Pro Val Met Gln Gln Ala Tyr Ala Ala Pro Val Gln Gln Pro Ala Leu
50          55          60
Ser Ala Ala Val Ala Pro Ala Ala Ala Glu Ala Ala Pro Ala Ala Ala
65          70          75          80
Thr Glu Asn His Gly His Ile Val Ser Ser Pro Trp Leu Val Leu Ser
85          90          95
Thr Ala Pro Arg Ser Arg Thr Arg Lys Ala Ser Thr Lys Cys Val Lys
100         105         110
Lys Ser Thr
115

```

<210> 10338

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10338

```

Gly Gly Gly Lys Gly Glu Gly Glu Val Gly Gly Thr Arg Glu Glu Arg
1           5           10           15
Arg Lys Arg Gly Leu Gly Lys Gly Arg Ala Met Glu Gly Gly Glu Gly
20          25          30
Gly Arg Glu Gly Lys Val Glu Gly Gly Ala Glu Val Gly Gly Gly Val
35          40          45
Gly Gly Gly Glu Gly Gly Gly Gly Gly Gly Glu Arg
50          55          60

```

<210> 10339

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10339

```

Lys Arg Arg Lys Arg Lys Lys Lys Lys Asp Leu Ser Ala Lys Gly Gln
1           5           10           15
Ala Glu Ala Ser Lys Arg Thr Ala Lys Ala Thr Thr Asn Pro Leu Thr
20          25          30
Lys Glu Asn Ser Gly Asn Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg
35          40          45
Glu Glu Ala Leu Gly Gln Lys Thr Val Glu Ile Gln Leu Gln Gln Gly
50          55          60
Leu Glu Glu Lys Glu Lys Ala Ser Ala Phe Trp Pro Thr Lys Glu
65          70          75          80

```

<210> 10340

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10340

```

Thr Ala Leu Ala Ser Ser Pro Asp Leu Arg Ile Met Arg Gly Leu Val
1           5           10           15
Val Ile Asp Gly Gly Phe Asn Leu Asn Gln Ser Ser Ser Leu Cys Tyr
20          25          30
Ser Thr Met Leu Pro Ile Gly Glu Leu Arg Lys Asn Gly Tyr Thr Leu
35          40          45
Pro Ser Ile Val Met Gly Leu Arg Ser Asn His Phe Arg Leu

```

50

55

60

<210> 10341

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10341

```

Ile Leu Thr Arg Val Thr Glu Ser Val Arg Thr Gly Ser Gly Leu Val
1           5           10           15
Leu Ser Thr Leu Ile Lys Ala Phe Phe Ile Ala Leu Phe Pro Leu Val
          20           25           30
Leu Lys Lys Leu Pro Thr Arg Pro Asp Gly Gly Val Gly Gln Lys Ile
          35           40           45
Met Pro Val Pro Tyr Ser Ser Ser Gln His Ala Tyr Ala Gly Thr Leu
          50           55           60
Ser Gly Gln His Glu His
65           70

```

<210> 10342

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10342

```

Pro Thr Pro Pro Ser Gly Arg Val Gly Asn Phe Phe Arg Thr Arg Gly
1           5           10           15
Asn Arg Ala Met Lys Lys Ala Phe Ile Asn Val Asp Lys Thr Asn Pro
          20           25           30
Leu Pro Val Leu Thr Asp Ser Val Thr Arg Val Ser Ile Gln Cys Thr
          35           40           45
Ala Lys Asp Glu Asn Gly Ala Gly Ile Glu Val Asn Ile Leu Asp Leu
          50           55           60
Ile Gln Asp His Asp Thr Asp Glu Val Lys Val Gln Phe Gly Ser Ser
65           70           75           80
Pro Val Gln Ala Leu Ala Met Leu Arg Arg Val Met Thr Ala Leu Glu
          85           90           95
Lys Gln Ala Asn Ala Glu Leu Gln Gln Asn Ser Cys Ser Arg Met Gln
          100           105           110

```

<210> 10343

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10343

```

Asn Gly Glu Lys Pro Lys Arg Arg Thr Leu Val Tyr Ala Thr Gly Asn
1           5           10           15
Arg Asn Arg Phe Arg Leu Gln Arg Asn Arg Val His Lys Gln Asn Pro
          20           25           30
Ala Gly Lys Ala Pro Ser Met Ser Ser Val Leu Asn Lys Lys Thr Val
          35           40           45
Thr Val Ile Ala Asp Thr Ala Ile Pro Ile Phe Glu Arg Ile Ala Glu
          50           55           60
Glu Ala Lys Leu Lys Glu Gly Glu Ser Val Ser Thr Asp Thr Tyr Thr
65           70           75           80
Leu Val Leu Thr Asn Asp Glu Met Asn Asp Ile Ile Asn Ala His Ala
          85           90           95
Asp Leu Lys Glu Tyr Leu Arg Lys His Ala Glu Lys Met Asn Lys Gly

```

100 105 110
 Gln Ala
 115
 <210> 10344
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae
 <400> 10344
 Thr Tyr Gly Glu Asp Met Val Ile Thr Tyr Ser Leu Ser Glu Thr Phe
 1 5 10 15
 Asn Met Phe Leu Arg Glu Ile Ile Ala Ser Gly Leu Ala Val Phe Cys
 20 25 30
 Ala Trp Cys Val Leu Cys Leu Phe Ser Asp Gln Glu Arg Gly Lys Glu
 35 40 45
 Val Pro Val Ser Met Lys Lys Ile Thr Ser Lys Ser Ala Phe Ser Tyr
 50 55 60
 Phe Ile Ser Ser Gln Ile Ala Ala Phe Ile Ile Ser Leu Leu Gly Ser
 65 70 75 80
 Ile Leu Ser Thr Lys Trp Asp Asn Ile Val Trp Asn Asp Glu Ile Arg
 85 90 95
 Gln Ser Asp Leu His Val Phe Thr Thr Thr Ser Gln Ile Arg Ser Asn
 100 105 110
 Ala

<210> 10345
 <211> 64
 <212> PRT
 <213> Enterobacter cloacae

<400> 10345
 Ser Pro Asn Val Cys Leu Ser Ile Arg Leu Val Lys Tyr Gly Ser Ser
 1 5 10 15
 Leu Ile Lys Ile Cys Ser Leu Ile Val Phe Phe Ala Gly Ser Pro Arg
 20 25 30
 Leu Phe Phe Val Ser Ser Pro Glu Ser Ser Lys Tyr Phe Ser Ile Phe
 35 40 45
 Leu Glu Asn Arg Glu Gln Asp Gly Val Leu Leu Phe Glu Gln Ser
 50 55 60

<210> 10346
 <211> 164
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (10)

<400> 10346
 Met His Ser Leu Met Thr Val Ala Ile Xaa Ile Gln Asn Gln Gln Gly
 1 5 10 15
 Phe Phe Asp Leu Phe Lys Ser Gln Glu Arg Lys Ser Lys Glu Val Ile
 20 25 30
 Ser Ile Leu Phe Glu Tyr Val Arg Glu Asn Ser Val Trp Val Glu His
 35 40 45
 Tyr Glu Ser Gln Ile Ser Ile Thr Gln Asp Asp Arg Tyr Ser Leu Val
 50 55 60
 His Phe Asn Gln Tyr Gln Glu Pro Asn Trp Ser Phe Ile Ser Lys Glu

65					70					75					80
Lys	Leu	Glu	Glu	Thr	Tyr	Pro	Glu	Phe	Asp	Phe	His	Val	Ser	Arg	Lys
				85					90					95	
Ser	Leu	Glu	Asn	Trp	Ser	Asn	Ala	Arg	Leu	Ser	Thr	Gln	Thr	Ile	Lys
			100					105					110		
Lys	Leu	Leu	Lys	Glu	Lys	Asn	Trp	Thr	Met	Lys	Glu	Val	Ala	Ala	Arg
		115					120					125			
Trp	Asn	Arg	Ser	Glu	Ser	Trp	Met	Ser	Lys	Val	Val	Asn	Asp	Glu	Glu
	130					135					140				
Arg	Glu	Leu	Tyr	Trp	Glu	Asp	Ala	Phe	Lys	Gly	Leu	Pro	Ser	Lys	Ile
145					150					155					160
His	Glu	Lys													

<210> 10347

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10347

Gly	Ser	Ile	Met	Ser	Lys	Glu	Leu	Val	Arg	Pro	Ile	Met	Glu	Lys	Pro
1				5					10					15	
Glu	Arg	Ala	Arg	Lys	Glu	Ser	Ser	Leu	Thr	Asn	Ile	Ala	Ala	Lys	Lys
		20						25					30		
Lys	Asn	Thr	Thr	Gly	Glu	Thr	Pro	Lys	Thr	Ile	Arg	Met	Thr	Pro	Ala
		35					40					45			
Glu	Lys	Met	Leu	Ala	Gln	Glu	Leu	Val	Glu	Gln	Ile	Gln	Ala	Leu	Thr
	50					55				60					
His	Lys	Asn	Ile	Thr	Val	Ser	Thr	Leu	Leu	Arg	Ala	Gly	Leu	Tyr	Leu
65					70					75					80
Ala	Gln	Ser	Ala	Gly	Pro	Glu	Lys	Val	Leu	Lys	Ala	Ile	Lys	Glu	Asn
				85					90					95	
Ile															

<210> 10348

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10348

Lys	Met	Asp	Lys	Gln	Leu	Tyr	His	Ile	Arg	Trp	Lys	Leu	His	His	Thr
1				5					10					15	
Leu	Ala	Glu	Leu	Asn	Tyr	Ser	Leu	Glu	Cys	Phe	Gly	Asp	Tyr	Leu	Ala
		20						25					30		
Lys	Gln	Asn	Asp	Tyr	Pro	Tyr	Asp	Ile	Asp	Gly	Phe	Glu	Ala	Ile	Tyr
		35					40					45			
Leu	Tyr	Leu	Gln	Arg	Lys	Tyr	Ser	Trp	Pro	Leu	Asp	Lys	Ser	Arg	Gly
	50					55					60				
Met	Ser	Leu	Ser	Asp	Ile	Arg	Leu	Ala	Leu	Ser	Val	Glu	Met	Lys	Gly
65					70					75					80
Trp	Thr	Leu	Pro	Arg	Asp	Ala	Ile	Phe	Glu	Glu	Phe	Pro	Gly	Val	Tyr
				85					90					95	

<210> 10349

<211> 63

<212> PRT

<213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(27)

<400> 10349

Ser	Thr	Asn	Asn	Trp	Glu	Lys	Glu	Tyr	Leu	Pro	Pro	Pro	Lys	Gly	Leu
1				5					10					15	
Glu	Phe	Met	Glu	Ile	Pro	Thr	Asp	Pro	Phe	Xaa	Cys	Val	Leu	Leu	Gly
			20					25					30		
Trp	Gly	Gly	Gly	Ile	Lys	Gly	Gly	Pro	Phe	Pro	Gly	Gly	Glu	Ser	Arg
		35					40					45			
Thr	Asn	Tyr	Pro	Ala	Gln	Gly	Gly	Pro	Thr	Phe	Pro	Trp	Val	Val	
	50					55					60				

<210> 10350

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10350

Ile	Gln	Lys	Val	Thr	Phe	Ile	Met	Pro	Ser	Leu	Leu	Gly	Ile	Ser	Asn
1				5					10					15	
Lys	Lys	Ser	Leu	Pro	Asn	Leu	Leu	Asp	Ile	Ser	Asn	Leu	His	Leu	Ile
			20					25					30		
Asp	Asn	His	Met	His	Ser	Asp	Tyr	Ser	Val	Asp	Val	Pro	Phe	Gly	Gly
		35					40					45			
Pro	Ala	Leu	Arg	Glu	Gln	Lys	Lys	Arg	Pro	Ile	Gly	Arg	Phe	Ala	Leu
	50					55					60				

65

<210> 10351

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10351

Lys	Ser	Gly	Tyr	Pro	Pro	Phe	Pro	Gln	Ala	Gly	Asp	Asp	Tyr	Met	Gln
1				5				10						15	
Asp	Asn	Glu	Leu	Ala	Lys	Val	Arg	Asp	Phe	Trp	Leu	Thr	Val	Lys	Leu
			20					25					30		
Met	Ala	Glu	Asn	Ser	Leu	Lys	Glu	Ile	Ser	Leu	Leu	Asn	Thr	His	Gln
		35					40					45			
Glu	Ile	Leu	Gln	Lys	Ser	His	Arg	Glu	Ala	Met	Ser	Asn	Leu	Ser	Ser
	50					55					60				
Leu	Leu	Lys	Glu	Gln	Val										
65					70										

<210> 10352

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10352

Lys	Gly	Ala	Gly	Pro	Gly	Met	Ser	Arg	Ile	Ile	Ala	Arg	Thr	Gly	Met
1				5				10						15	
Ile	Arg	Ser	Ser	Ser	Ile	Leu	Thr	His	Arg	Phe	Ile	Arg	Ala	Ala	Arg
			20					25					30		
Ser	Arg	Arg	Ala	Ser	Val	Arg	Pro	Arg	Ala	Gln	Gly	Gln	Trp	His	Arg
		35					40					45			
Arg	Arg	Ser	Ile	Arg	Pro	Val	Leu	Met	Ser	Cys	Lys	Lys	Ser	Ser	Val

50		55		60	
Ala	Gln	Ala	Asp	Trp	Thr
65					70
Arg	Gln	Leu	Glu	Asn	Ala
					85
Tyr	Thr	Leu	Ser	Lys	Arg
					100
Asp	Val	Trp	Ser	Ala	Thr
					115
Trp	Ser	Ala	Ala	Ile	Asn
130					135

<210> 10353

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10353

Leu	Thr	Glu	Gly	Ser	Arg	Ser	Arg	Ala	Lys	Arg	Ile	Leu	Ser	Phe	Ile
1				5					10					15	
Val	Ile	Ala	Ala	Thr	Gly	Asp	Ile	Pro	Ala	Trp	Pro	Leu	Phe	Ala	Leu
				20				25					30		
Ala	Ala	Val	Thr	Thr	Asn	Glu	Ile	Lys	Val	Arg	Glu	Ala	Asp	Asn	Leu
				35			40					45			
Ser	Asn	Leu	Leu	Leu	His	Phe	Ile	Phe	Ile	Ile	Ser	Pro	Asp	Ser	Arg
50						55					60				

65

<210> 10354

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10354

Ile	Ser	Phe	Ala	Val	Arg	His	Leu	Arg	Asn	Asp	Ile	Gly	Phe	Thr	Cys
1				5					10					15	
Ser	Gly	Pro	Val	Phe	Thr	Asn	Arg	Trp	Met	Ile	His	Phe	Ser	Phe	Ile
				20				25					30		
Tyr	Leu	Ala	Arg	Ser	Arg	Tyr	Phe	Met	Phe	Val	Ile	Arg	Phe	Gln	Asn
				35			40					45			
Val	Thr	Phe	Val	Ile	Val	Lys	Ser	Ile	Leu	Leu	Ile	Asn	Ile	Ala	Leu
				50		55					60				
Ser	Tyr	Lys	Phe	Ile	Asn	Lys	Ser	Trp	Ile	Val	His	Tyr	Tyr	Cys	Leu
65					70				75					80	
Asn	Gly	Lys	Ser	Val	Thr	Ala	Ile	Phe	Asp	Thr	Asn	Gly	Cys	Val	Arg
				85					90					95	

Asn Asp

<210> 10355

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 10355

Ala	Phe	Asn	Asn	Arg	Ser	Glu	Tyr	Ile	Pro	Lys	Arg	Ser	Val	Leu	Ile
1				5					10					15	
Val	Pro	Asp	Ala	Pro	Ile	Ser	Ile	Glu	Asp	Gly	Ser	Asn	Ala	Phe	Pro
				20				25					30		
Val	Gln	Thr	Val	Ile	Met	Asn	Asp	Pro	Thr	Leu	Ile	Asp	Lys	Phe	Val

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<210> 10356
<211> 232
<212> PRT
<213> Enterobacter cloacae
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<210> 10357
<211> .75
<212> PRT
<213> Enterobacter cloacae
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<400> 10357
Cys Pro Lys Ala Leu Lys Gly Ile Glu Asn Pro Phe Arg Arg Ala Phe
1 5 10 15
Glu Leu Gln Arg Ser Ser Leu Lys Cys Pro Ser Cys Pro Thr Ile
20 25 30

Cys Gln Gln Asn Val Lys Thr Ser Ile Gln Val Ala Gly Ile Tyr Val
 35 40 45
 Glu Cys Glu Lys Pro Gln Thr Lys Ile Lys Lys Thr Leu Thr Val Ser
 50 55 60
 Phe Gln Gln Arg Asn Leu Cys Tyr Ser Pro
 65 70 75

<210> 10358

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10358

His Phe Phe Ala Arg Asn Trp Glu Lys Cys Gln Pro Asn Leu Thr Asp
 1 5 10 15
 Pro Asp Ala Tyr Glu Arg Gln Leu Gln Gln Lys Gly Lys Gly Leu Ala
 20 25 30
 Leu Arg Phe Val Glu Pro Trp Leu Leu Ala Phe Val Asn Pro Asp Ala
 35 40 45
 Lys Gln Gly Arg Cys Gln Pro Val Met Val Cys Tyr Ala Leu Leu Gly
 50 55 60
 Lys Thr Arg Gly Lys Val Ser Thr Ala Thr Ala Ser Glu Asn Phe Arg
 65 70 75 80
 Tyr Thr Asn Ser
 85

<210> 10359

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10359

Arg Gly Gly Val Lys His Thr Pro Phe Ala Thr Ile Leu Lys Pro Leu
 1 5 10 15
 Ser Asp Arg Cys Ser Ser Leu Pro Gly Ser Trp Arg Ser Asp Leu Val
 20 25 30
 Val Lys Thr Tyr His Pro Pro Ala Gln Pro Val Gly Ile Phe Gly Cys
 35 40 45
 Asn Arg Phe Lys Leu Gln Phe Leu Pro Ser Val Met Gly Met Ile Arg
 50 55 60
 Gly Gln Asn Leu Asp Asn Tyr Ser Asn Asn Pro
 65 70 75

<210> 10360

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (50)

<220>

<221> UNSURE

<222> (66)

<220>

<221> UNSURE

<222> (72)

<220>

$\langle 222 \rangle (73)$

<221>UNSURE

<222> (88)

<221>UNSURE

<222> (89)

Arg 1	Asn	Gln	Leu	Pro 5	Ala	Thr	Ala	Thr	Leu 10	Pro	Phe	Cys	Ser	Ser 15	Ile
Pro	Gly	Gly	Glu 20	Val	Leu	Phe	Ser	Ser 25	Ala	Gln	Gly	Ala	Ala 30	Leu	Arg
Pro	Ala	Val 35	Asn	Ser	Ala	Asp 40	Phe	Ser	Glu	His	Ser 45	Arg	Ala	Arg	Asp
Val 50	Xaa	Leu	Trp	Thr	Val	Glu 55	Gly	Ser	Ala	Gly	Thr 60	Ile	Asp	Thr	Gly
Val 65	Xaa	Asn	Glu	Tyr	Gly 70	Thr	Xaa	Xaa	Ile	Ile 75	Ala	Leu	Phe	Trp	Val 80
Arg	Pro	Ile	Phe 85	Leu	Gly	Lys	Xaa	Xaa 90							

<211> 80

<212> PRT

<213> Enterobacter cloacae

Gly 1	Gly	Gly	Val	Tyr 5	His	Lys	Leu	Trp	Gln 10	Lys	Met	Gln	Trp	Leu 15	Phe
Phe	Ile	Leu	Val	Ala	Pro	Arg	Leu	Leu	Val	Asp	Ala	Asp	Tyr	Glu	Gly
			20						25				30		
Thr	Leu	Ser	Asn	Met	Leu	Ala	Ala	Ile	Lys	Cys	Leu	Ser	Pro	Val	Arg
			35				40					45			
His	Ser	Leu	Ile	Val	Val	Thr	Lys	Asn	Arg	Ala	Leu	Phe	Phe	Val	Trp
	50					55					60				
Val	Asn	Asn	Cys	Phe	Ser	Asn	Phe	Leu	Asn	Ile	Asp	Ala	Arg	Lys	
65					70					75					80

<211> 82

<212> PRT

<213> Enterobacter cloacae

[illegible]

<210> 10363
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 10363
 Gln Ser Glu Ile Glu Gly Met His Arg Thr Lys Phe Glu Arg Leu Lys
 1 5 10 15
 Asp Asp Leu Ile Gly Glu Ala Val Leu Ser Ile Leu Lys Glu Asn Gly
 20 25 30
 Pro Ile Thr Phe Val Ser Leu Ala Asn Arg Leu Arg Ala Met Ala Asn
 35 40 45
 Val Glu Ser Asn Asp Glu Arg Lys Asn Ala Leu Ile Ala Ala Glu Asp
 50 55 60
 Glu Val Arg Gln Arg Val Thr Gly Val Ser His Asp Arg Gly Arg Val
 65 70 75 80
 Met Gly Asn Tyr Asp Met Gly Arg Met Arg Ser Leu Phe Thr His Asn
 85 90 95
 Thr Leu Leu Thr Pro Asp Lys Lys His
 100 105

<210> 10364
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10364
 Arg Asp Lys Phe Phe Lys Phe Phe Phe Ala Ile Asp Ala Phe Arg Asn
 1 5 10 15
 Ala Phe Pro Ser Arg His Val Ala Val Tyr Leu Tyr Arg Phe Asn Asn
 20 25 30
 Ala Ile Val Ile Val Val Ser Asn Lys Val Leu Asn Tyr Ile Ala Val
 35 40 45
 Lys Leu Gln Ser Ile Asn Ile Asn Leu Ser Asp Gly
 50 55 60

<210> 10365
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10365
 Ile Thr Gly Ser Ser Thr Tyr Asn Glu Met Asn Leu Ala His Leu Lys
 1 5 10 15
 Lys Gln Ile His Tyr Asn Arg Val Met Tyr Ile Ala Val Leu His Leu
 20 25 30
 Arg His Leu Pro His Arg Leu Ile Phe Ile Tyr Asp His Lys Asp
 35 40 45
 Ile Phe Tyr Val Pro Gln Lys Val Ile Thr His Glu Tyr Ile Asn His
 50 55 60
 Asp His Cys Val Tyr Ser Phe Ile Leu Trp Gly Ser Phe Cys Ser Val
 65 70 75 80
 Gln

<210> 10366
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10366

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Thr Ser Leu Phe Ile Phe Val Arg Leu Ser Phe Asp Ser Cys Gln Thr
1      5      10      15
Leu Ile Trp Lys Thr Lys Lys Ser Phe Leu Leu Ile Arg Phe Thr Glu
20      25      30
Ile Leu Leu Arg Tyr Phe Gly Tyr Tyr Leu Asn Asn Tyr Gln Lys Arg
35      40      45
Gly Ala Ala Met Arg Lys Ser Tyr Thr Phe Gly Ile Pro Phe Gly Leu
50      55      60
Gln Arg Glu Ser Gly Leu Phe Leu Asp Ile Thr Glu Val Ser Arg Gly
65      70      75      80
Ile Asp Cys Asn Cys Ile Cys Pro Ala Cys Lys Thr Asp Leu Leu Ala
85      90      95
Lys Gln Gly Glu Val Lys Leu Trp His Phe Ser His Ser Thr Ala Val
100     105     110
Ala Gly Asp Cys Asp Gly Leu Met Glu Ala Ile Arg Gly Lys Ile Ile
115     120     125
Glu Val Ile Asn Glu His Gln Val Leu Gly Phe Pro Asn Leu Leu Ala
130     135     140
Gly Asp Asp Gly Gly Pro Val Ser Leu Asn Glu Val Ser Gly Ser Gly
145     150     155     160
Ser Met Phe Gly Gly Thr Ala Asp Leu Phe Val Ser Val Lys Pro Leu
165     170     175
Pro Pro Val Ala Ile Thr Asn Asp
180     185

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<210> 10367
<211> 61
<212> PRT
<213> Enterobacter cloacae

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<400> 10367
Cys Pro Thr His Gln Ile Ala Ala Thr Tyr Glu Thr Val Pro Arg Gln
1      5      10      15
Ile Met Ala Gln Ser Gln Ile Tyr Gln Cys Ser Arg Lys Met Lys Leu
20      25      30
Gly Tyr Phe Pro Arg Phe Ser Ile Tyr Trp Gly Thr Ser Gln Asp Tyr
35      40      45
Glu Ser Cys Phe Thr Val Cys Val Val Arg Ser Leu
50      55      60

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<210> 10368
<211> 82
<212> PRT
<213> Enterobacter cloacae

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<400> 10368
Asn Tyr Phe Ser Asp Leu Arg Gly Leu Tyr Tyr Leu Pro Ser Ala Lys
1      5      10      15
Val Ser His Asn Phe Thr Ile Ser Thr Tyr Gln Asn Phe Leu Gly Leu
20      25      30
Leu Phe Cys Tyr Val Lys Cys His Ile Leu Lys Asn Met Ala Tyr Met
35      40      45
Leu Ile His Asn Ala Ile Lys Asp Val Leu Ala Leu Ser Leu Ser Ser
50      55      60
Asn Glu Ser Cys Thr Pro Gln Gln Pro Gln Met Met Thr Asp Gln Arg
65      70      75      80
Leu

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<210> 10369
<211> 103

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<212> PRT

<213> Enterobacter cloacae

<400> 10369

Lys Gln Leu Ala Pro Gly Asn Arg Ala Ala Arg Lys Gly Glu Arg Ala
 1 5 10 15
 Gly Ala Ala Pro Gln Lys Glu Asp Arg Arg Arg His Gly Arg Gly Val
 20 25 30
 Gln Lys Gly Gln Lys Pro Ala Glu Gly Asn Asn Asn Gln Gln Lys Gln
 35 40 45
 Glu Ile Gln Thr Ala Gln Asn Glu Pro Asp Lys Gln Ser Lys Thr Arg
 50 55 60
 Thr Asp Gly Arg Gly Lys Thr Gly Gln Pro Gln Lys Glu Gly Glu Glu
 65 70 75 80
 Lys Gly Thr Gln Glu Glu Gln Ala Glu Arg Thr Gln Ser Ser Arg Ile
 85 90 95
 Lys Ile Phe Thr Cys Pro
 100

<210> 10370

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10370

Pro Gly Lys Gly Trp Phe Gly Leu Gly Lys Arg Asn Pro His Gly Ala
 1 5 10 15
 Lys Gly Asn Tyr Asp Met Val Glu Thr Val Lys Gly Trp Lys Gly Thr
 20 25 30
 Met Gly Asn Met Gly Tyr Leu Gly Asp Gly Phe Ala Arg Ile Thr Arg
 35 40 45
 Gly Asp Ala Ser Leu Phe Leu Gly Lys Asn Lys Thr Leu Val Arg Met
 50 55 60
 Met Arg Lys Arg Arg Gln
 65 70

<210> 10371

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10371

Ile Leu Gln Leu Glu Ile Gln Phe His Lys Leu Leu Asp Ser Phe Pro
 1 5 10 15
 Asp Phe Asp Phe Phe Ser His Thr Leu Met Ala Arg Phe Pro Cys Leu
 20 25 30
 Phe Phe Ala Ser Leu Thr Ser Val Tyr Ser Ser Ser Thr Tyr Pro Thr
 35 40 45
 Leu His His His Leu Lys Ser Ile Phe Leu Ile Pro Leu Ser Phe Ser
 50 55 60

65

<210> 10372

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 10372

Arg Asp Leu Tyr Thr Val Leu Asn Gln Gly Glu Leu Met Asn Glu Leu
 1 5 10 15

Lys Ser Lys Asn Glu Asn Ser Thr Lys Ser Asn Phe Pro Pro Val Asp
 20 25 30
 Asn Gln Phe Cys Phe Tyr His Val Asp Phe Ser Ile Glu Arg Leu Leu
 35 40 45
 Ser Thr Ala Glu Asp Leu Gln Leu Glu Tyr Ile Phe Gln Lys Pro Gly
 50 55 60
 Ser Glu Val Arg Lys Asp Leu Val Glu Arg Phe Glu Arg Gly Glu Arg
 65 70 75 80
 Phe Val Thr Ala Ser His Cys Asp Asn Phe Cys Glu Ile Leu Gly Cys
 85 90 95
 Gln Gly His Gln Glu Asn Ala
 100

<210> 10373

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10373

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
 1 5 10 15
 Phe Gly His His Ile Ser Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
 20 25 30
 Thr Glu Gln Gln Leu Gly His Cys Gln Gln Leu Ala Asp Leu Thr Pro
 35 40 45
 Leu Ile Ala Lys Leu Gly Phe Cys Ser Asp Val Asp Leu Pro Phe Trp
 50 55 60
 Ala Gly Phe Gly Leu Leu Thr Leu Thr Ser Ile Ile Arg Asn Val Leu
 65 70 75 80
 Asp Asp Ala Asp
 85

<210> 10374

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10374

Tyr Arg Leu Thr Ser Tyr Ser Tyr Met Pro Val Cys Arg His Gln Cys
 1 5 10 15
 Leu Gly Tyr Phe Arg Ser Lys Gln Asp Leu Ala Arg Asp Leu Ile Lys
 20 25 30
 Arg Gly Val Thr Glu Gln Gln Leu Gly Ala Leu Ser Ser Ala Cys Lys
 35 40 45
 Phe Asn Pro Leu Asn Arg Gln Thr Trp Val Gln Ser
 50 55 60

<210> 10375

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10375

Val Met Pro Met Phe Thr Arg Ile Gln Lys Asp Asn Gly Trp Asp His
 1 5 10 15
 Leu Asn Asp Leu Arg Glu Lys Phe Asn Gly Lys Val Phe Lys Val Asn
 20 25 30
 Glu Gln Ile Ile Ser Arg Phe Gln Ile Lys Asn Thr Pro Ala Ile Ile
 35 40 45
 Thr Thr Asp Gln Asp Lys Phe Arg Ile Thr Leu Phe Ser Glu Ala Glu
 50 55 60

Val Arg Gly Ile Gly Ala Pro Asn Leu Ser Glu Glu Lys
65 70 75

<210> 10376

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10376

Phe Leu Arg Val Lys Ile Met Lys Leu Arg Lys Thr Ile Ala Ser Thr
1 5 10 15
Ile Ile Ala Ser Met Ile Ala Asn Thr Met Ser Trp Ala Phe Tyr Ile
20 25 30
Ser Leu Ile Asn Met Val Met Thr Pro Arg Ile Tyr Ala Ala Asp Ala
35 40 45
Ile Phe Asp Gln Leu Glu Ser Asn Phe Asn Leu Ala Asn Pro Asn Ala
50 55 60
Asn Arg Asn Ala Thr Thr Ser Ala Gln Asp Ile Val Glu Lys Tyr Lys
65 70 75 80
Asn Ala Asp Ser Gly Glu Asn Val Ser Gly Lys Ile Thr Glu Lys Tyr
85 90 95
Val Gly Lys Ala Glu Ser Ala Asn Leu Asn Leu Gly Lys Tyr Gly Ala
100 105 110
Gly Asn Ser Asn Glu Ser Val Met Lys Asn Ala Ala Ser Asp Gly Lys
115 120 125
Ser Ile Gly Ser Ala Val Gln Leu Pro Ser Met
130 135

<210> 10377

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10377

Val Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Tyr Pro Pro Gly Gln Ala Ser Ala Ser Tyr Ala
20 25 30
Pro Glu Pro His Leu Thr Val Phe Met Thr Asp Tyr Phe Ile Pro Ile
35 40 45
Arg Pro Gly Pro Thr Ile Val Ser Ile Ala Thr Arg Arg Glu Glu Ser
50 55 60
Ile Gly
65

<210> 10378

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10378

Ser Tyr His Val Thr Met Val Leu Ser Gly Leu Leu Asn Gln Lys Ile
1 5 10 15
Asn Trp Ser Thr Gly Ser Arg Gly Ile Leu Arg Lys Gln Cys Lys Arg
20 25 30
Asp Ser Ser Glu Ser Phe Phe Ile Cys Ile Glu Lys Gly Ser Ile Met
35 40 45
Asn Glu Asn Ile Leu Gln Gly Asn Arg Lys Asn Leu Ser His Tyr Pro
50 55 60
Arg
65

<211> 61

<213> Enterobacter cloacae

Met	Lys	Thr	Tyr	Tyr	Lys	Val	Thr	Gly	Lys	Thr	Cys	His	Thr	Ile	His
1				5					10					15	
Ala	Glu	Leu	Arg	Lys	Ile	Gly	Asp	Leu	Ile	Asn	Pro	Ile	Pro	Asn	Lys
			20					25					30		
Lys	Tyr	His	Ile	Lys	Arg	Met	Met	Thr	Lys	Ala	Thr	Arg	Leu	Leu	Leu
		35					40					45			
Ile	Lys	Ser	Ile	Ser	Glu	Arg	Ile	Lys	Asn	Asn	Arg				
	50					55				60					

<211> 307

<213> Enterobacter cloacae

[illegible]

305

<210> 10381

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 10381

Met	Phe	Lys	Glu	Ser	Asp	His	Val	Glu	Phe	Val	Ser	Ala	Phe	Leu	Tyr
1				5					10					15	
Gln	Asn	Leu	Gly	Leu	Asn	Val	Pro	Ala	Asp	Asp	Ile	Thr	Val	Gln	Leu
			20					25					30		
Ser	Asp	Thr	Ser	Phe	Asp	Lys	Val	Thr	Phe	Asp	Tyr	Asp	Val	Asp	Ile
		35					40					45			
Asp	Asn	Leu	Asn	Cys	Met	Leu	Asp	Leu	Tyr	Ile	Ser	Glu	Leu	Ile	Lys
		50				55					60				
His	Asn	Ala	Ser	Tyr	Ser	Asp	Ser	Ile	Leu	Leu	Lys	Gln	Lys	Ile	Ile
65						70				75					80
Tyr	Phe	Leu	Gly	Val	Phe	Lys	Asn	Phe	Gly	Phe	Phe	Thr	Phe	Asp	Ile
				85					90					95	
Arg	Gly	Tyr	Ser	Asn	Thr	Leu	Ser	Pro	Val	Lys	Val	Ile	Asp	Ile	Val
			100					105					110		
Ser	Met	Ile	Ile	Asn	Asp	Cys	Glu	Glu	Leu	Ser	Lys	Ala	Asn	Ser	Ser
		115					120					125			
Thr	Asp	Ala	Ile	Arg	Asn	Leu	Tyr	Leu	Asp	Lys	Met	Lys	Val	Asp	Gly
		130				135					140				
Lys	Val	Leu	Val	Ala	Lys	Phe	Ala	Leu	Lys	Gln	Phe	Phe	His	Ser	Asp
145						150				155					160
Phe	Gly	Asp	Phe	Ile	Ser	Phe	Val	Glu	Glu	Lys	Asn	Tyr	Arg	Leu	Ser
				165					170					175	

<210> 10382

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 10382

Ser	Phe	Ile	Val	Asn	His	Leu	Arg	Phe	Pro	Ile	Val	Leu	Arg	Glu	Gly
1				5					10					15	
Cys	Lys	Ile	Glu	Arg	Gly	Glu	Val	Tyr	Ser	Ile	Ser	Asn	Cys	Thr	Tyr
			20					25					30		
Asn	Lys	Glu	Arg	Leu	Gln	Tyr	Leu	Phe	Ser	Gln	Asp	Ile	Tyr	Gly	Lys
		35					40					45			
Leu	Tyr	Asn	Ser	Leu	Glu	Lys	Glu	Leu	Ser	Ser	Phe	Phe	Ser	Phe	Ile
		50				55					60				
Asn	Val	Glu	Val	His	Glu	Leu	Leu	Lys	Asp	Ala	Val	Cys	Phe	Ala	Leu
65					70					75					80
Lys	Ile	Leu	Asn	Lys	Ile	Ser	Leu	Asp	Thr	Pro	Glu	Arg	Leu	Ile	Lys
				85					90					95	
Ala	Phe	Asn	Tyr	Arg	Asp	Trp	Tyr	Cys	Ser	Tyr	Asp	Val	Glu	Leu	Phe
			100					105					110		
Arg	Lys	Gly	Leu	Pro	Gly	His	Ile	Leu	Glu	Glu	Leu	Ile	Ala	Pro	Asp
		115					120					125			
Ile	Leu	Leu	Ser	Asp	Leu	Asn	Gly	Cys	Arg	Lys	Ile	Leu	Arg	Asn	Ala
		130				135					140				
Lys	Arg	Phe	Leu	Asn	Gly	His	Thr	Lys	Thr	Asn	Cys	Val	Tyr	Ile	Lys
145					150					155					160
Tyr	Glu	Trp	Trp	Leu	Gly	Pro	Val	Asp	Thr	Ser	His	Ser	Ala	Lys	Leu
				165					170					175	

Met Ser Asp Lys Glu Ile Asn Asn Arg Ser Asp Leu Lys Asn Phe Ser
 180 185 190
 Lys Val Phe Phe Lys Glu Cys Leu Ser Ser Gly Lys Ser Glu Tyr Glu
 195 200 205
 Asn His Leu Ser Glu Lys Glu His Ala Leu Arg Tyr Asn Tyr
 210 215 220

<210> 10383

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10383

Leu Arg Asn Leu His Leu Asn Ser Phe Phe Ile Pro Thr Leu Val Thr
 1 5 10 15
 Leu Ser His Leu Ser Lys Lys Arg Ile Thr Asp Cys Leu Asn Glu Thr
 20 25 30
 Leu Arg Ile Ile Lys Ala Val Glu His Gly Phe Val Arg Val Gly Gln
 35 40 45
 His Lys Ile Asn Arg Arg Ile Asn Asp Asp Leu Lys Leu Cys Ile Asp
 50 55 60
 Phe Asn Thr Asp Asp Tyr Pro Ala Asn Met Pro Asp Ile Tyr Ile Lys
 65 70 75 80
 Phe Asn Asp Thr Phe Asp Gly Asn Gly Ala Leu Tyr Cys Asp Asn Asp
 85 90 95
 Ala Leu Ile Ser Leu Tyr Thr Asp Val Ala Ser Ile Ile Asn Val Pro
 100 105 110
 Val Met Met Glu Val Arg Leu Ile Asn Lys Arg Gly Arg Val Val Cys
 115 120 125
 Asp Ser Ser His Ser Thr Tyr Val Ser Leu Glu Ser Asn Asp Arg Tyr
 130 135 140
 Arg Val Thr Asp Arg Thr Leu Leu Ile Thr Glu Ala Phe Asp Asp Phe
 145 150 155 160
 Arg Asn Ala Ser Gln
 165

<210> 10384

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (24)

<400> 10384

Pro Asn Phe Tyr Leu Thr Gln Trp Gly Ser Arg Phe Pro Ser Gly Ala
 1 5 10 15
 Leu Pro Leu Lys Phe Glu Val Xaa Tyr Met Thr His Ser Ser Asp Asp
 20 25 30
 Lys Asn Tyr Val Arg Ala Val Leu Ser Tyr Leu Gly Ile Asp Phe Asp
 35 40 45
 Glu Ala Asp Ile Val Leu Ser Val Cys His Cys Gln Ser Asp Glu Leu
 50 55 60
 Ser Phe Thr Cys Asn Ile Lys Ala Ile Glu Leu Lys Asn Ala Val Asp
 65 70 75 80
 Leu Tyr Val Asp Ser Ile Ser Glu Gln
 85 90

<210> 10385

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10385

Ile	Arg	Tyr	Leu	Trp	Ile	His	Leu	Lys	Asp	Leu	Leu	Lys	Leu	Leu	Ile
1				5					10					15	
Ile	Val	Thr	Gly	Ile	Val	Val	Thr	Met	Leu	Ser	Phe	Leu	Gly	Lys	Ala
			20					25					30		
Tyr	Leu	Val	Ile	Phe	Trp	Lys	Ser	Ser	Leu	Leu	Gln	Ile	Ser	Tyr	Phe
		35					40					45			
Gln	Thr	Leu	Thr	Val	Val	Glu	Lys	Tyr	Leu	Glu	Met	Gln	Asn	Asp	Phe
	50					55					60				

65

<210> 10386

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10386

Ile	Gln	Gln	Ile	Ala	Val	Lys	Asn	Ser	Thr	Ala	Leu	Asn	Asp	Lys	Lys
1				5					10					15	
Ile	Pro	Phe	Asn	Thr	Thr	Lys	Ile	Thr	Leu	Ala	Ile	Ile	Ile	Asn	Phe
			20					25					30		
Ile	Tyr	Tyr	Arg	His	Ser	Val	Leu	Asn	Val	Cys	Leu	Ser	Leu	Ile	Glu
		35				40					45				
Pro	Asp	Ala	Ser	His	Ser	Val	Phe	Phe	Tyr	Leu	Ser	Leu	Arg	Gln	Pro
	50					55					60				
Thr	Phe	Asn	Val	Leu	Pro	Leu	Gly	Asn	Asp	Asn	Asp	Tyr			
65					70					75					

<210> 10387

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10387

Val	Asn	Phe	Asp	Tyr	Phe	His	Leu	Trp	Asp	Ile	Lys	Ser	Leu	Ile	Leu
1				5					10					15	
Phe	Thr	Ser	Arg	Leu	Ile	Pro	Thr	Lys	Ile	Phe	Gln	Met	Ile	Leu	Arg
			20					25					30		
Ala	Leu	Gln	His	Ile	Asn	Gln	Asn	Leu	Lys	Asp	Cys	Ser	Glu	Glu	Pro
		35				40						45			
Ala	Phe	Leu	Leu	Pro	Tyr	Tyr	Leu	Ala	Ile	Phe	Phe	Phe			
	50					55					60				

<210> 10388

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10388

Arg	Gln	Gly	Leu	Thr	Gln	Arg	Glu	Leu	Ser	Ala	Met	Leu	Gly	Val	Thr
1				5					10					15	
Gln	Gln	Thr	Tyr	Ala	Arg	Leu	Glu	Ala	Asn	Pro	Ser	Lys	Ala	Ser	Phe
			20					25					30		
Glu	Arg	Leu	Tyr	Lys	Val	Leu	His	Ile	Leu	Gly	Val	Glu	Ile	Ser	Leu
		35				40						45			
Ser	Ser	Ala	Pro	Leu	Ser	Thr	Tyr	Thr	Lys	Pro	Thr	Asn	Phe	Val	Glu
	50					55					60				

Lys Glu Phe Asp Ser Pro Ala Arg Arg Glu Glu Trp
65 70 75

<210> 10389

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10389

Lys Leu Thr Phe Ser Val Leu Ile Thr Ala Cys Gly Asp Lys Asp Gly
1 5 10 15
Gln Val Lys Asn Gln Ser Val Arg Ile Val Asp Ile Gln Gln Val Ile
20 25 30
Ile Asn Ser Gly Leu Ala Glu Gln Glu Ala Glu His Leu Lys Ser Val
35 40 45
Arg Lys Thr Leu Ala Asp Gly Leu Thr Leu Ala Gln Ala Gln Tyr Glu
50 55 60
Asn Leu Pro Glu Glu Lys Lys Asn Glu Ala Lys Gln Asn Asp Asn Lys
65 70 75 80
Leu Ile Glu Tyr Gln Trp Gln Asn Glu Arg Phe Leu Ala Arg Lys Ala
85 90 95
Val Gly Gln Thr Ile Gln Asn Ala Ile Asp Lys Trp Arg Ile Lys Asn
100 105 110
Asn Ile Ser Ile Ile Ile Pro Arg Gln Gln Ala Leu Ser Leu Asp Glu
115 120 125
Gly Leu Asp Ile Thr Pro Leu Ile Val Lys Glu Leu Lys Gly Ala Lys
130 135 140
Val Lys Phe Gly Glu Leu Pro Val Ile Ser Leu Lys Gln Lys Glu Asn
145 150 155 160
Ser Pro Ser Glu Lys Glu Asn Gly
165

<210> 10390

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10390

Ser Phe Lys Leu Ile Asn Lys Arg Gln Val Leu Met Leu Ser Asn Ile
1 5 10 15
Arg Met Asp Arg Ile Lys Asn Gln Ser Leu Arg Leu Val Asp Ile Gln
20 25 30
Gln Val Ile Ile Ile Ser Gly Leu Asp Arg Gln Glu Ala Asn His Leu
35 40 45
Lys Lys Leu Gln Gly Lys Ser Ser Ser Met Asp Leu Arg Leu Leu Arg
50 55 60
Arg Ser Val
65

<210> 10391

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10391

Ser Pro Glu Lys Thr Ser Gly Glu Lys Phe Ile Asp Gly Leu Ala Leu
1 5 10 15
Ala Gln Ala Leu Ser Met Lys Ile Tyr Ile Lys Arg Arg Gln Met Arg
20 25 30
Gln Tyr Asp Asn Lys Phe Ile Glu Tyr Leu Gly Arg Arg Ser Gly Lys
35 40 45

Leu Val Leu Leu Ser Thr Lys Gly Leu Leu Ser Asn Lys Thr Thr Val
 50 55 60
 Ser Ala Phe Leu Gly Ile
 65 70

<210> 10392

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 10392

Ile Ala Cys Gly Leu Thr Phe Lys Asn Ser Cys Lys Gly Gly Gln Met
 1 5 10 15
 Leu Ser Ser Lys Lys Arg Lys Ser Pro Thr Asn Ile Lys Glu Ser Leu
 20 25 30
 Asn Asp Asn Ala Asp Arg Phe Tyr Lys Met Phe Arg Ile His Thr Thr
 35 40 45
 Ala Lys Val Ala Met Ser Leu Ile Ala Met Thr Ala Val Gly Phe Ser
 50 55 60
 Phe Tyr Asn Leu Tyr Glu Gln Trp Gln Asp Ala Glu Gly Lys Lys Asp
 65 70 75 80
 His Ile Ala Val Ile Arg Ile Ser Gly Glu Met Gly Thr Gly Ser Glu
 85 90 95
 Thr Gly Asp Gly Thr Val Ile Ala Thr Ala Leu Ala Lys Ala Tyr Asn
 100 105 110
 Asn Pro His Ala Lys Ala Val Ile Ile Glu Ala Glu Ser Gly Gly Gly
 115 120 125
 Gly Pro Ser Asp Ala Ile Ile Ile Tyr Arg Gln Ile Asn Ala Leu Lys
 130 135 140
 Asn His Gln Pro Gln Ile Glu Arg Val Ser Asp Ala Gly Gly Ser Leu
 145 150 155 160
 Ser Ser Val Ala Ala Asp Lys Ser Asn Lys Thr Gly Ser Thr Glu Arg
 165 170 175
 Gly Asp Glu Ala Arg Ser Lys Gln Asn Ser Leu Glu Val Leu Ser Ser
 180 185 190
 Gly Thr Gly Arg Phe Phe Ser Asp Ile Ala Asp Ser Tyr Lys Pro Ile
 195 200 205
 Ile Val Ser Val Lys Gly Ile Cys Ala Ser Ala Cys Tyr Tyr Ala Val
 210 215 220
 Ser Pro Ala Asp Ala Ile Tyr Ala Asp Ser Asn Ala Leu Ile Gly
 225 230 235

<210> 10393

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 10393

Thr Ser Tyr Arg Arg Gly Ile Lys Pro Gln Ile His Pro Glu Thr Thr
 1 5 10 15
 His Ser His Ile Val Thr Ile Glu Asp Ser Pro Phe Leu Ser Arg Leu
 20 25 30
 Lys Phe Lys Ile Ile Thr Ala Ile Asp Gln Leu Pro Asp Pro Asn Gly
 35 40 45
 Leu Tyr Thr Asn Thr Phe Asn Ser Ile Ile Asp Arg Ala Leu Leu Thr
 50 55 60
 His Leu Lys Thr Glu Gln Glu Lys Ile Asp Ser Pro Arg Val Cys Lys
 65 70 75 80
 Asn Val Ile Ser Ala Phe Ala Asp Ser Thr Leu Ser Leu Pro Val Phe
 85 90 95
 Asn Ile Gly Leu Asn Glu Gln Tyr Arg Tyr Trp Thr Pro Trp Gly Ile

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<210> 10394
<211> 230
<212> PRT
<213> Enterobacter cloacae
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<210> 10395
<211> 170
<212> PRT
<213> Enterobacter cloacae
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<400> 10395
Gly Ser Met Asn Asn Ile Phe Leu Gln Phe His Ile Tyr Gly Leu Asp
1 5 10 15
Ala Ser Lys Asp Tyr Ser Leu Ser Ile Thr Arg Asn Gly Ser Gln
20 25 30

Pro Ala Thr Val Ile Asn Ile Asp Asp Pro Lys Asn Arg Asp Leu Ala
 35 40 45
 Leu Leu Lys Val Glu Lys Asn Thr Ile Val Lys Ala Pro Pro Asn Trp
 50 55 60
 Lys Leu Pro Val Cys Asp Asn Val Leu Ala Pro Gly Glu Ser Val Trp
 65 70 75 80
 Val Leu Ser Gly Met Tyr Asn Thr Leu Ser Asn Thr Tyr Ala Ser Pro
 85 90 95
 Asp Ser Thr Tyr Tyr Tyr Lys Gly Ile Val Gly Ser Asp Gly Leu Thr
 100 105 110
 Ala Phe Tyr Gln Asn Gly Val Ser Gly Ser Ala Val Leu Asn Gln Ser
 115 120 125
 Lys Ser Cys Leu Tyr Gly Val Ser Gln Gln Asp Ile Lys Lys Ile
 130 135 140
 Asn Val Tyr Gln Ile Tyr Ile Thr Lys Ile Thr Thr Asn Glu Ile Ile
 145 150 155 160
 Arg Gly Phe Ile Gly Tyr Lys Asn Asn
 165 170

<210> 10396

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10396

Met Ser Val Ile Leu Gln Gln Ala Ile Pro Thr Leu Ser Ala Leu Val
 1 5 10 15
 Tyr Leu Ser Glu Pro Leu Lys Gly Thr Ser Ile Met Tyr Lys Leu Leu
 20 25 30
 Pro Ala Ile Leu Val Phe Leu Ser Val Phe Leu Gly Leu Ile Ala Leu
 35 40 45
 Leu Ser Ala Ile Lys Asn Gly Ser Asp Glu Leu Ala Val Phe Leu Ile
 50 55 60
 Thr Leu Ser Ala Trp Phe Ala Ala Leu Ser Lys Phe Tyr Ser Leu Lys
 65 70 75 80
 Leu Tyr Lys Asn Ser
 85

<210> 10397

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10397

Arg Lys Ser Thr Thr Ala Leu Ser Tyr Tyr Ile Tyr Gly Ala Lys Glu
 1 5 10 15
 Asp Gly Gly Glu Val Val Leu Arg Pro Phe Ile Val Asn Pro Asp Glu
 20 25 30
 Leu Met Leu Thr Pro Ala Asp Val Val Glu Phe Asn Ser Gln Val Ile
 35 40 45
 Asn Val Asp Arg Gln Arg His Pro Glu Trp Phe Arg
 50 55 60

<210> 10398

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10398

Pro Pro Pro Pro Phe Leu Gly Gly Leu Gly Ala Trp Gly Met Val Tyr
 1 5 10 15

Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
 20 25 30
 Trp Gln Asp Leu Pro Asp Ser Val Pro Asp Val Lys Gly Tyr Thr Gly
 35 40 45
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 50 55 60

<210> 10399

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10399

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Leu Arg Gly Ile His Thr Arg Pro Val
 50 55 60
 Ser Gln Phe Tyr Arg Ile Phe Thr Lys Lys Phe Val His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Ile Pro Thr Trp Asp Asp Pro Gly Thr Met Ile Ser
 85 90 95
 Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Phe Ser Val Gly Pro
 100 105 110
 Asn Glu Pro Asp Gly Thr Asn Gln Pro Ser Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Leu Thr Lys His Arg Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Arg Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10400

<211> 237

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (212)

<400> 10400

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Phe Arg Gly Ile His Thr Arg Pro Val

50		55		60	
Ser Gln Phe Tyr Arg Ile	Phe Thr Lys Lys Phe Val His Pro Ser Glu				
65	70	75		80	
Arg Tyr Ile Ala Ile	Pro Thr Trp Asp Asp Pro Gly Thr Met Ile Ser				
	85	90		95	
Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Phe Ser Val Gly Pro					
	100	105		110	
Asn Glu Pro Asp Gly Thr Asn Gln Pro Ser Tyr Glu Asp Ile Ile Ser					
	115	120		125	
Phe Thr Val Val Asn Asp Gln Gly Phe Leu Gln Thr Lys His Arg Leu					
	130	135		140	
Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly					
145	150	155		160	
Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser					
	165	170		175	
Gly Lys Leu Asp Pro Arg Ser Pro Gly Trp Ala Trp Gly Met Val Tyr					
	180	185		190	
Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn					
	195	200		205	
Trp Gln Asp Xaa Pro Asp Ser Val Pro Asp Val Lys Gly Tyr Thr Gly					
	210	215		220	
Trp Glu His Met Gln Cys Asn Met Asp Ala Gly Lys					
225	230	235			

<210> 10401

<211> 68

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (29)

<400> 10401

Gly Asp Lys Ala Met Lys Gly Val Ile Arg Leu Asn Asp Pro Leu Ile	
1	5 10 15
Ser Gly Arg Lys Val Thr Lys Ala Ser Gly Ala Asn Xaa Met Gly Gln	
	20 25 30
Pro Val Ala Leu Lys Asp Asp Leu Ala Gln Cys Pro Leu His Lys Gly	
	35 40 45
Lys Phe Ala Ile Thr Asp Cys His Gln Pro Gly Thr Cys Ile Gly Leu	
	50 55 60
Gly Leu Trp	
65	

<210> 10402

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10402

Met Ala Lys Leu Thr Asp Ile Tyr Ser Tyr Pro Ser Leu Ile Glu Ile	
1	5 10 15
Ala Tyr Gln Ala Leu Ser Tyr Leu Ser Phe Asn Leu Ser Thr Val Tyr	
	20 25 30
Ile Arg Lys Arg Asp Lys Lys Gln Phe Leu Tyr Asn Leu Phe Phe Val	
	35 40 45
Ser Lys Gly Asp Ser Phe Asp Thr Ala Glu Lys Gly Leu Lys Arg Cys	
	50 55 60
Val	
65	

<210> 10403
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10403
 Thr Gly Asp Gln Asp Arg Glu Trp Phe Gly His Glu Cys Phe Arg Arg
 1 5 10 15
 Gly Gly Gly Glu Tyr Gln Leu Lys Ala Gly Val Tyr Gln Ser Trp Ser
 20 25 30
 His Ser Leu Leu Val Lys Val Arg His Ile Ile Lys Thr Lys Arg Gly
 35 40 45
 Lys Lys Leu Phe Ala Gln Gly Asn Ile Pro Leu Arg Lys
 50 55 60

<210> 10404
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 10404
 Ala Arg Asp Ser Ala Arg Pro Val Arg Gln Asp Glu Gly Ala Lys Ala
 1 5 10 15
 Gly Ala Leu Val Pro Ala Thr Arg Gln Ile Thr Val Lys Pro Val Arg
 20 25 30
 His Gly Ser Asp Gln Glu Asn Lys Arg Thr Gly Lys Arg Arg Pro Asp
 35 40 45
 Asp Arg Gln Val Lys Cys Gln Asp Glu Glu Arg Asn Glu His Asn Ala
 50 55 60
 Lys Glu Ser Glu Gln Arg Arg Asp Ile Lys Ser His Asp Asp Gly Asn
 65 70 75 80
 Cys Leu Leu Ser Val Lys Phe Ser Ser Met Leu Leu Gln Ser Pro Gln
 85 90 95
 Cys Phe Asn Glu
 100

<210> 10405
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 10405
 Ile Met Asn Ile Thr Asp Lys Glu Leu Ile Ser Asn Thr Val Arg Gln
 1 5 10 15
 Tyr Gly Trp Asn Leu Arg Glu Phe Asn His Ser Thr Pro Phe Thr Ser
 20 25 30
 His Phe Ile Tyr Ile Thr Asp Tyr His Lys Asp Asn Thr Trp Met Ile
 35 40 45
 Ser Leu Ser Gln Glu Asp Phe Asn Thr Thr Lys Ile Leu Thr Ser Leu
 50 55 60
 Ser Leu Gly Lys Val Arg Thr Ser Ser
 65 70

<210> 10406
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 10406
 Met Val Glu Ala Arg Tyr Gln Gly Lys Pro Val Ser Ser Leu Pro Glu

1				5					10				15	
Glu	Ala	Phe	Ala	Glu	Gly	Leu	Ser	Arg	Ser	Gly	Leu	Ser	Pro	Val
			20					25					30	Leu
Leu	Leu	Ala	Ser	Pro	Thr	Thr	Val	Pro	Val	Thr	Thr	Asp	Glu	Arg
		35					40					45		Trp
Trp	Leu	Ala	Lys	Glu	Asn	Val	Ser	Gly	His	Tyr	Gly	Arg	Ile	Phe
	50				55						60			Tyr
Ala	Ala	Val	Arg	Glu	Leu	Val	Ile	Arg	Ser	Asp	Ile	Ile	Ser	Val
65				70						75				80
Arg	Ser	Ile	Ala	Asp	Glu	Asn	Phe	Thr	Ser	Glu	His	Met	Gly	Tyr
			85						90					95
Glu	Arg	Leu	Thr	Ser	Asp	Glu	Lys	Glu	Val	Val	Phe	Ser	Asp	Tyr
		100						105					110	Leu
Arg	Thr	Leu	Ala	Glu	Gly	Gly	Leu	Thr	Cys	Thr	Glu	Lys	Asn	Leu
		115					120					125		Val
Lys	Leu	Thr	Gln	Asp	Leu	Tyr	Pro	Ile	Asp	Ala	Thr	Pro	Asp	Asn
	130				135						140			Ile
Arg	Lys	Leu	Ser	Thr	Asp	Arg	Asp	Ala	Leu	Asn	Glu	Leu	His	Ile
145				150						155				160
Gly	Met	Val	Leu	Phe	Ile	Thr	Gly	Pro	Ala	Leu				
			165					170						

<210> 10407

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10407

Arg	Ser	Asn	Met	Ile	Val	Asn	Lys	Asn	Arg	Phe	Met	His	Lys	Asn	Gly
1				5				10						15	
Lys	Arg	Phe	Lys	Ser	Ile	Gly	Arg	Tyr	Leu	Arg	Phe	Trp	Gln	Ala	Val
			20					25					30		
Ala	Ser	Ser	Gly	Leu	Pro	Met	Asp	Met	Val	Ile	Arg	Glu	Lys	Pro	Tyr
		35					40					45			
Gln	Leu	Met	Val	Ala	Leu	Ile	Ala	Leu	Tyr	Thr	Ala	Ile	Pro	Val	Val
	50				55						60				
Thr	Ile	Val	Ile	Leu	Ser	Gly	Gln	Gln	Ser	His	Lys	Leu	Glu	Leu	Ile
65				70						75					80
Ala	Val	His	Phe	Ser	Thr	Ile	Ile	Thr	Met	Val	Phe	Val	Leu	Arg	Arg
			85						90					95	
Lys	Met	Gly	Lys	Arg	Trp	Leu	Asp	Leu	Phe	Glu	Glu	Lys	Leu	Ala	Ile
			100					105					110		
Tyr	Lys	Pro	Asn	Asp	Lys	Leu	Ala	Leu	Ser	Glu	Leu	His	Glu	Ser	Ile
		115					120					125			
Arg	Glu	Lys	Asn	Gly	Leu	Asp	Leu	Gln	Asp	Leu	Gln	Asp	Trp	Tyr	Trp
	130				135						140				
Lys	Glu	Lys	Met	Thr	Tyr	Glu	Tyr	His	Lys	Glu	Arg	Lys	Thr	Thr	Ile
145			150							155					160
Ser	Tyr	Gln	Lys	Phe	Lys										
				165											

<210> 10408

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10408

Tyr	Gly	Phe	Ser	Arg	Ile	Thr	Met	Ser	Met	Gly	Lys	Pro	Glu	Asp	Ala
1				5				10						15	
Thr	Ala	Cys	Gln	Asn	Leu	Lys	Tyr	Leu	Pro	Met	Asp	Leu	Asn	Leu	Phe
			20					25					30		

Pro Phe Leu Cys Ile Asn Leu Phe Leu Phe Thr Ile Met Leu Asp Leu
 35 40 45
 Tyr Phe Ser Val Ile Leu Glu Cys Tyr Leu Asn Pro
 50 55 60

<210> 10409

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10409

Ile Thr Pro Lys Leu Cys Thr Ser Ser Met Phe Leu Ala Cys Trp Leu
 1 5 10 15
 Ser Ile Leu Met Ala Ala Ile Ala Phe Ala Leu Ser Lys Ser Ala Ala
 20 25 30
 Lys Met Ala Ile Ala Ile Leu Phe Met Ile Cys Ala Pro Arg Leu Arg
 35 40 45
 Ala Val Ile Arg Gly Asn Ala Leu Leu Leu Cys Ser Gly Phe Leu Ile
 50 55 60
 Lys Val
 65

<210> 10410

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10410

Arg Asp Pro Pro Gly Phe Leu Ile Pro Pro Phe Ser Ala Ser Pro Cys
 1 5 10 15
 Arg Lys Arg Gly Lys Arg His Lys Thr Thr Thr Ile Leu Gln Ile Gly
 20 25 30
 Asp Leu Ala Gly Cys Phe Ile Ala Pro Leu Asn Asp Ile Leu Pro Val
 35 40 45
 Val Arg Ser Lys Ile Val Asp Asn Tyr Asn Ile Pro Leu Asn
 50 55 60

<210> 10411

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10411

Arg Arg Trp His Met Glu Ile Asp Leu Asp Asn Leu Leu Phe Asn Gly
 1 5 10 15
 Leu Asp Glu Ala Glu Glu Arg Asn Ala Glu Arg Leu Asp Asp Ala Asp
 20 25 30
 Lys Lys Ala Gln Ala Ile Val Ala Asp Asp Asp Cys Gly Glu Cys Leu
 35 40 45
 Gln Asp Leu Lys Lys Lys His Arg Ala Pro Arg Cys Phe Phe Tyr Glu
 50 55 60
 Cys Leu Leu Leu Pro Asp Ile Arg Ser Pro Ala Phe Cys
 65 70 75

<210> 10412

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10412

Pro Gly Lys Lys Gln Arg His Arg Cys Glu Gln Ile Lys Leu His Ala

1			5					10			15				
Lys	Val	Leu	Val	Ile	Thr	Lys	Arg	Val	Asn	His	His	Phe	Glu	Asn	Phe
			20					25					30		
Lys	Gln	Ile	Pro	Gln	Cys	Gln	Gln	Tyr	Gly	Glu	Pro	Gly	Lys	Ile	Asp
		35					40					45			
Asn	Leu	Pro	Asn	Ser	Thr	Met	Val	Tyr	Gly	Phe	Thr	Glu	Ile	Arg	Thr
	50					55					60				
Val	Lys	Glu	Ser	Gln	Met	Lys	His	His	Ile	Pro	Lys	Ser			
65					70					75					

<210> 10413

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 10413

Val	Asp	His	Phe	Leu	Pro	Val	Val	Asp	Lys	Met	Ala	Leu	Asn	Tyr	Ile
1				5				10					15		
Arg	Ala	Glu	Arg	Glu	Ala	Glu	Glu	Pro	Tyr	Arg	Gln	Met	Leu	Ser	Gln
			20					25					30		
Ala	Leu	Ala	Asp	Gly	Asn	Ile	Gly	Gln	Pro	Asn	Leu	Arg	Ser	Glu	Leu
		35					40					45			
Ile	Asp	Arg	Cys	Ile	Val	Ala	Trp	Arg	Ala	Asp	Asn	Arg	Gly	Ala	Thr
	50					55				60					
Leu	Glu	Ala	Ala	Met	Ser	Thr	Glu	Lys	Gly	Ser	Lys	Glu	Leu	Leu	Asn
65				70					75					80	
Gln	Leu	Tyr	Met	Leu	Ala	Asp	Val	Gly	Leu	Lys	His	Leu	Pro	Gly	Val
			85					90					95		
Arg	Asn	Phe	Ile	Ser	Ser	Lys	Gly	Tyr	Glu	Leu	Val	Arg	Leu	Ser	Val
		100						105					110		
Asn	Ala	Ser	Gly	Lys	Leu	Val	Ala	Tyr	Ala	Ala	Pro	Ala	Asn	Phe	Glu
		115					120					125			
Cys	Asp	Asn	Arg	Met	Glu	Gly	His	Ala	Trp	Val	His	Arg	Met	Val	Leu
	130					135					140				
Ala	Thr	Ser	Arg	Asn	Val	Leu	Asn	Val	Thr	His	Gln	Arg	Phe	Ala	Lys
				150					155						160
Met	Lys	His	Phe	Leu	Pro	Ala	Glu	Asn	Thr	Leu	Phe	Glu	Asp	Glu	Gln
			165						170					175	
Leu	Val	Ala	Thr	Trp	Ser	Gly	Lys	Lys	Thr	Ala	Phe	Lys	Ser	Phe	Glu
			180					185					190		
Glu	Lys	Gln	Arg	Tyr	Phe	Asp	Thr	Cys	Ser	Arg	Gly	Ala	Gln	Ala	Leu
		195					200					205			
Lys	Gln	Phe	Leu	Lys	Leu	Asn	Asp	Pro	Val	Ile	Tyr	Thr	Asn	Leu	Leu
	210					215					220				
Gly	Gln	Trp	Ile	Glu	Ala	Tyr	Glu	Ser	Ile	Asn	Glu	Thr	Ser	Glu	Tyr
				230					235						240
Val	Gln	Gln	Val	Ser	Leu	Met	Ala	Pro	Val	Ala	Val	Lys	Ser	Glu	Lys
				245					250					255	
Gly	Lys	Ala	Ser	Leu	Ile	Tyr	Ile	Gly	Thr	Lys	Asp	Leu	Ala	Asp	Trp
		260						265					270		
Phe	Tyr	Gln	Lys	Ala	Pro	Thr	Pro	Glu	Leu	Gln	Ala	Leu	Phe	Leu	Glu
		275					280					285			
Glu	Tyr	Leu	Ser	Lys	Phe	Glu	Asn	Lys	Glu	Val	Asn	Lys	Glu	Lys	Leu
	290					295					300				
Leu	Ser	Arg	Arg	Asn	Thr	Ala	Leu	Ser	Leu	Ser	Phe	Tyr	Thr	Met	Asp
	305				310					315					320
Asn	Gly	Glu	Val	Pro	Asp	Glu	Ile	Leu	Val	Thr	Lys	Ser	Val	Asp	Asn
			325						330					335	
Ala	Arg	Arg	Trp	Tyr	Ser	Gly	Met	Phe	Thr	Ser	Met	Pro	Thr	Met	Leu
			340					345					350		
Asn	Asp	Gln	Trp	Ser	Val	Phe	Thr	Thr	Gly	Ala	Gly	Arg	Ile	Arg	Ala

355
Tyr Leu
370

360

365

<210> 10414
<211> 92
<212> PRT
<213> Enterobacter cloacae

<400> 10414
Asn Trp Gln Ile Cys Tyr Thr Val Asn Leu His Arg Arg Val Ile Val
1 5 10 15
Arg Phe His Arg Arg Tyr Leu Leu Ser Lys Val Ser Arg Phe Ala Thr
20 25 30
Phe Phe Met Tyr Ser Leu Ser Gly Leu Glu Ser Phe Ile Val Gln Ser
35 40 45
Pro Glu Gly Ala Pro His Arg Leu Pro Glu His Trp Trp Ser Gln Leu
50 55 60
Lys Cys Asp Cys Ser His Pro Lys Ala Leu Ile Thr Gly Tyr Lys Ser
65 70 75 80
Ile Gly Gly Arg Gln Cys Asp Ser Thr Thr Val
85 90

<210> 10415
<211> 153
<212> PRT
<213> Enterobacter cloacae

<400> 10415
Arg Arg Gly Arg Arg Tyr Leu Met Tyr Arg Asn Asp Arg Asn Val Asp
1 5 10 15
Ser Phe Asn Leu Val Asn Ala Leu Gln Pro Val Phe Arg Asn Thr Gly
20 25 30
Cys Gly Met Phe Glu Tyr Asp Arg Lys Lys Gln Asn Glu Thr Ala Asp
35 40 45
Ser Ile Leu Arg Ala Leu Ala Leu Asn Ala Asp Phe Ala Arg Ala Leu
50 55 60
Lys Gln Tyr Val Arg Ile Asn Ser Val Arg Arg Val Val Gln Phe Asp
65 70 75 80
Asp Gly Ser Val Arg Tyr Gly Ile His Ala Glu Phe Glu Gly His Asn
85 90 95
Lys Ile Asn Ser Phe Arg Ile Phe Lys Asp Glu Asp Thr Asp Ala Phe
100 105 110
Asp Ser Tyr Phe Tyr Ser Val Cys Asp Asn Lys Ala Glu Leu Val Asp
115 120 125
Phe Lys Met Asp Ser Leu Asp Ile Gln Leu Gln Ala Val Phe Glu Lys
130 135 140
Val Thr Gly Ile Phe Leu Ser His
145 150

<210> 10416
<211> 123
<212> PRT
<213> Enterobacter cloacae

<400> 10416
Lys Lys Leu Gln Cys Gly Leu Leu Ala Ser Arg Ser Glu Phe Tyr Ile
1 5 10 15
Ile Pro Lys Asn Thr Gly Gly Ile Met Lys Thr Asn Leu Ala Tyr Ala
20 25 30
Ser Asn Cys Ser Asp Ser Val Tyr Ser Tyr Ile Tyr Gln Ala Leu Gln

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<210> 10417
<211> 185
<212> PRT
<213> Enterobacter cloacae
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Asn	Ile	Asp	Glu	Met	Asn	Met	Lys	Asn	Val	Asn	Ile	Leu	Asp	Thr	Asp
1				5					10					15	
Ile	Ala	Ala	Ile	Asn	Ala	Leu	Ser	Gly	Val	Lys	Leu	Thr	Asp	Phe	Leu
			20					25					30		
Thr	Ala	Gly	Tyr	Gln	Val	Asn	Trp	Leu	Gly	Glu	Arg	Glu	Val	Ser	Leu
		35					40					45			
Val	Gly	Phe	Pro	Cys	Leu	Ala	Ser	Asn	Lys	Gln	Pro	Val	Glu	Val	Gly
	50					55					60				
Pro	Gly	Ile	Phe	Ile	Asn	Arg	Val	Tyr	Ser	Arg	Asp	Ser	Gln	Ser	Leu
65				70						75					80
Ser	Gly	Lys	Leu	Arg	Tyr	Asp	Leu	Ser	Asn	Gly	Leu	Ala	Thr	Ser	Ala
			85						90					95	
Phe	Ser	Phe	Phe	Ser	Gln	Ser	Gly	Trp	Tyr	Gly	Gly	Phe	Arg	Val	Val
			100					105					110		
Ser	Phe	Arg	Asp	Asn	Gly	Pro	Ala	Leu	Ile	Asn	Ile	Gly	Ile	Val	
		115					120				125				
His	Glu	Asn	Val	Leu	Asn	Ala	Phe	Cys	Ala	Asp	Phe	Pro	Arg	Ala	Asn
	130					135					140				
Val	Ser	Val	Thr	Arg	Phe	His	Cys	Gly	Met	Thr	Leu	Glu	Gln	Ile	Arg
145				150						155					160
Met	Phe	Ile	Ser	Asp	Thr	Ala	Tyr	Asp	Met	Pro	Leu	Tyr	Asn	Asn	Glu
				165					170					175	
Ser	Asp	Phe	Arg	Arg	Leu	Ala	Ser								
			180					185							

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<210> 10418
<211> 79
<212> PRT
<213> Enterobacter cloacae
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Asn	Arg	Gln	Gln	Ile	Ser	Thr	Pro	Ile	Lys	Lys	Leu	His	Tyr	Tyr	Arg
1				5					10					15	
Ser	Tyr	Glu	Ile	Thr	Ile	Ile	Ser	Glu	Tyr	Tyr	Asp	Phe	Phe	Pro	Tyr
			20					25					30		
Arg	Thr	Asn	Arg	Ser	Arg	His	Leu	Ala	Thr	Tyr	Phe	Phe	Tyr	Val	Arg
		35					40					45			
Leu	Gln	Arg	Ser	Thr	Leu	Arg	Glu	Val	Ser	Lys	Thr	Gly	Arg	Ser	Gln
	50					55					60				
Pro	Val	Pro	Pro	Pro	Arg	Ser	Pro	Ala	Phe	Arg	Arg	Lys	His		
65					70					75					

<210> 10419

<211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10419
 Arg Ile Thr Leu Ser Ser Gly Gly Lys Thr Thr Asp Asp Asp Val Arg
 1 5 10 15
 Ala Ser Gly Leu Tyr Trp Pro Arg Met Cys Ala Asp Ile Tyr Gly Arg
 20 25 30
 Ser Gly Gly Arg Leu Ser His Val Gln Lys Ser Phe Tyr Ile Leu Ala
 35 40 45
 Val Asn Phe Asn Asn Ser Ala Phe Asn Ile Cys Gln Val Cys Thr Ile
 50 55 60
 Glu Met Lys Ser Ile Ile Ser Phe His Leu Gly Ile Tyr Ser Ala Ala
 65 70 75 80

<210> 10420
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10420
 Thr Ser Thr Ser Thr Ser Thr Phe Ser Asn Lys Asp Glu Ile Phe Val
 1 5 10 15
 Arg Ile Ser Pro Val Leu Leu Phe Leu Ser Leu Thr Ile Glu Glu Val
 20 25 30
 Leu Thr Ser Asn Lys Phe Asp Ile Thr Tyr Val Phe Leu Thr Ser Trp
 35 40 45
 Phe Arg Ser Ala Ile Leu Phe Ile Gln Arg Arg Arg Ser
 50 55 60

<210> 10421
 <211> 210
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (161)

<400> 10421
 Thr Thr Val Arg Ser Asn Met Glu Ala Ile Asn Asn Tyr Asn Ser Gly
 1 5 10 15
 Leu Asn Arg His Gln Leu Gly Gly Phe Ile Pro Val Tyr Asp Gln Leu
 20 25 30
 Ala Gly Thr His Tyr Phe Leu Ile Asp Gly Asn Arg Leu Gly Phe Met
 35 40 45
 Phe Ile Cys Asn Pro Ser Pro Gly Val Phe Asp Asn Gln Gln Asp Val
 50 55 60
 Leu Ala Glu Met Phe Lys Met Asp Phe Pro Thr Asp Thr Val Cys Gln
 65 70 75 80
 Ile Ser Leu Thr Ala Leu Pro Asp Leu Thr Leu Gln Leu Ser Ala Trp
 85 90 95
 Ser Ala Val Arg Gly Gly Arg Met Thr Gly Asn Asp Lys Leu Lys Ala
 100 105 110
 Asp Leu Leu Asn Gly Tyr Gln Leu Asp Tyr Tyr Asp Arg Ser Met His
 115 120 125
 Lys Pro Leu Lys Pro Asp His Asp Thr Leu Met Leu Arg Asp Phe Gln
 130 135 140

Val Trp Ile Ser Leu Ser Ile Pro Leu Gln Phe Ala Phe Pro Thr Glu
 145 150 155 160
 Xaa Glu His Ser Arg Ile Asp Ser Leu Tyr Ser Glu Leu Val Ser Lys
 165 170 175
 Leu Ile Thr Ile Gly Leu His Pro Phe Lys Val Asp Ala Glu Asn Trp
 180 185 190
 Leu Tyr Cys Ile Asp Lys Val Val Asn Pro Ala Lys Glu Leu Pro Val
 195 200 205
 Gly
 210

<210> 10422

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10422

Thr Phe Pro Leu Gly Phe Ile Met Lys Thr Pro Asn Glu Ala Glu Ser
 1 5 10 15
 Glu Leu Leu Gln Thr Leu Ala Gln Val Arg Ser Val Asn Lys Lys Arg
 20 25 30
 His His Asp Glu Ala Glu Glu Pro Asp Lys Pro Ser Val Val Lys Arg
 35 40 45
 Gln Arg Val Thr Gln Gly Leu Thr Arg Ile Ser Thr Leu Asp Arg Gln
 50 55 60
 Ala Val Leu His Ala Ala Ile Arg Asp Ile Leu Leu Gly Lys Ile Thr
 65 70 75 80
 Gln Gly Glu Ala Leu Lys Arg Leu Arg Val Glu Val Leu Gly Leu Lys
 85 90 95
 Gln Asp Glu Tyr Ala Lys Leu Val Ser Val Ser Arg Lys Thr Leu Ser
 100 105 110
 Asp Val Glu Asn Asn Arg Gly Asn Tyr Ser Ala Asp Val Ile Asn Lys
 115 120 125
 Ile Phe Lys Pro Phe Gly Leu Gln Thr Gly Leu Val Pro Val Ser Lys
 130 135 140
 Ser Leu Ile Ala Ser Leu Phe Ser
 145 150

<210> 10423

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10423

Tyr Ser His Asn Ser Asn Gln Pro Gly Trp Phe Asn Pro Ser Val Pro
 1 5 10 15
 Val His Gln Val Ser Phe Phe Ser Val Arg Met Ser Ile Asp Gly Ala
 20 25 30
 Pro Gln Lys Glu Val Gly Val Thr Val Ile Leu Pro Glu Ile Pro Leu
 35 40 45
 Cys Ser Gly Cys Val Leu Ser Phe Arg Gln Asp Thr Trp Leu
 50 55 60

<210> 10424

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10424

Val Met Thr Ile Glu Ser Phe Phe Ile Gly Thr Arg Met Ser Gly Lys
 1 5 10 15

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Arg Tyr Gly Pro Gln Ser Lys Asp Met Gln Val Ser Glu Phe Ile Ala
      20      25      30
Leu Ile Ser Pro Lys Asn Glu Pro Glu Lys Phe Val Leu Pro Asp Phe
      35      40      45
Ser Gly Leu Ala Arg Arg Ile Asp Ala Gln Ile Arg Asn Gln Phe Ile
      50      55      60
Gln Gln Lys Glu Asp Asp Tyr Tyr Arg Arg Tyr Arg Gln Leu Ser Asp
      65      70      75      80
Arg Trp Tyr Gln Ala Gly Ser Ile Ser Asp Arg Asn Asn Arg Ser Gln
      85      90      95
Arg Phe Glu Lys Val Met Asp Glu Ser Leu Glu Phe Leu Val Tyr Ser
      100      105      110
His Asp Val Met Pro Asn Ile Asn Pro Tyr Asn Leu Lys Tyr Asp Asp
      115      120      125
Arg Val Gln Val Ser Thr Lys Gly Lys Met Tyr Cys Val Ala Leu Leu
      130      135      140
Phe His Ile Ile Ala Arg Ala Ala Tyr Glu Pro Val Ser Val Gly Ala
      145      150      155      160
Asp Pro Thr Leu Gln Arg His Cys Lys Trp Leu Lys Asp Trp Ile Asn
      165      170      175
Lys Thr Leu Gly Asp His Phe Leu Glu Gly Met Met Ile Thr Phe Ala
      180      185      190
Leu Cys Tyr Pro Asp His Phe Pro Ala Leu Gln Arg Leu Ser Gly Glu
      195      200      205
Leu Glu Thr Arg Asp Val Asp Thr Phe Leu Ala Asp Glu Val Arg Lys
      210      215      220
Ala Arg Gln His Thr Glu Glu Gln Val Asn Tyr His Asn Gly Arg Tyr
      225      230      235      240
Arg Leu Lys Phe Glu Tyr Thr His Phe His Gln Glu Gln Phe Asp Phe
      245      250      255
Leu Ala Glu Met Arg Asp Leu His Tyr Arg Ile Asp Arg Ile Glu Gln
      260      265      270
Leu Leu Gln Lys Leu Ile Asp Asn Pro Val Val Asp Phe Ser Glu Ala
      275      280      285
Ala Val Ala Gly Gln Trp Ile Asp Glu Gln Val Gln Leu Leu Glu Thr
      290      295      300
Asn Glu Thr Lys Leu Ile Leu Pro
      305      310

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<210> 10425

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10425

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Ser Pro Leu Ser Arg Thr Pro Ala Pro Cys Gly Ala Glu Glu Cys Leu
1      5      10      15
Thr Leu Ile Glu Ser Ile Asn Val Asn Lys Arg Thr Leu Ser Ser Ser
      20      25      30
Ile Val Ser Asn Arg Asn Arg Arg Gln Trp Leu Asp Ala Tyr Thr Gln
      35      40      45
Ser Pro Glu Ile His Met Pro Phe Ser Asp Phe Leu Lys Ile Ile Gln
      50      55      60
Lys Phe Gln Cys Ala Thr Val Leu Glu Lys Val Leu Met Leu Leu Phe
      65      70      75      80
Val Ile Leu Ile Ile Val Gln Gln Val Ile Asp Thr Phe Cys Ser Arg
      85      90      95

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<210> 10426

<211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 10426

Ser	Arg	Gly	Ile	Met	Ala	Arg	Thr	Tyr	Val	Lys	Gln	Thr	Val	Gln	Asn
1				5					10					15	
Asn	Glu	Gln	Leu	Phe	Asp	Ser	Leu	Val	Ile	Asn	Ala	Ile	Asp	Phe	Leu
			20					25					30		
Glu	Ser	Ser	Ile	Asp	Asp	Leu	Asn	Ile	Arg	Pro	Lys	Asn	Ser	Ile	Val
		35					40					45			
Asp	Phe	Tyr	Thr	Ala	Ile	Glu	Leu	Phe	Leu	Lys	Ala	Arg	Leu	Met	Leu
	50					55				60					
Glu	His	Trp	Thr	Leu	Ile	Leu	Asp	Asp	Pro	Ser	Lys	Ala	Asn	Lys	Gln
65				70					75						80
Lys	Phe	Ser	Val	Gly	Asp	Phe	Asn	Ser	Val	Tyr	Phe	Asn	Asp	Ala	Val
				85					90					95	
Gln	Arg	Leu	Lys	Thr	Ile	Ile	Gly	Ile	Lys	Leu	Asp	Asp	Asn	Ile	Leu
			100					105					110		
Asp	Glu	Phe	Arg	Thr	Leu	Gly	Ala	His	Arg	Asn	Gln	Ile	Val	His	Phe
		115					120					125			
Ala	His	Thr	Gly	Tyr	Ser	Ser	Thr	Gln	Ala	Asn	Lys	Ala	Gly	Val	Val
		130				135					140				
Ala	Gln	Gln	Trp	Ser	Ser	Trp	His	His	Leu	Tyr	Asn	Leu	Leu	Thr	Val
145				150					155						160
Glu	Trp	Lys	Asp	Glu	Phe	Ile	Lys	Phe	Lys	Glu	Glu	Phe	Glu	Arg	Val
			165					170						175	
His	Lys	Arg	Met	Leu	Gln	Gln	Lys	Asp	Phe	Leu	Ser	Thr	Arg	Phe	Asn
			180					185					190		
Glu	Leu	Ser	Lys	Gly	Asp										
			195												

<210> 10427
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 10427

Val	Lys	Thr	Asn	Arg	Phe	Ile	Val	Ser	Thr	Val	Asp	Cys	Ile	Asn	Glu
1				5					10					15	
Phe	Ala	Ser	Asp	Val	Pro	Gln	Ser	Val	Ser	Leu	Arg	Ile	Asp	Thr	Met
			20					25					30		
Leu	Glu	Gln	Arg	Ile	Arg	Lys	Leu	Ala	Ala	Tyr	Val	Lys	Glu	Asn	Asp
		35					40					45			
Leu	His	Leu	Thr	Glu	Phe	Tyr	Phe	Tyr	Asp	Ala	Asn	Trp	Ser	Phe	Cys
	50					55				60					
Gly	Glu	Asp	Glu	Ile	Gln	Glu	Ile	Lys	Asp	Met	Asp	Glu	Tyr	Lys	His
65				70					75						80
Ser	Asp	Ser	Ile	Lys	Gln	Glu	Ala	Met	Leu	Arg	Glu	Val	Met	Pro	Ser
				85				90						95	
Ala	Arg	Thr	Glu	Cys	Pro	Val	Ile	Arg	Val	Met	Lys	Asp	Ser	Phe	Gln
			100					105					110		
Leu	Ser	Ala	Leu	Pro	Arg	His	Cys	Gly	Asp	Asp	Met	Thr	Leu	Asn	Thr
		115					120					125			
Pro	Phe	Ile	Pro	Leu	Ser	Glu	Leu	Lys	Thr	Asn	Asn	Thr	Ala	Phe	Ile
		130				135					140				
Thr	Pro	Pro	Thr	Tyr	Asn										
145					150										

<210> 10428
 <211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10428

Cys	Ser	Ile	Tyr	Arg	Gly	Ser	Gly	Lys	Tyr	Met	Phe	Ile	Glu	Lys	Ser
1				5					10					15	
Asp	Ser	Phe	Leu	Glu	Leu	Ser	Ser	Glu	Val	Ile	Phe	Pro	Glu	Ala	Ala
			20					25					30		
Asn	Ala	Ala	Ile	Leu	Lys	His	Asp	Lys	Trp	Ala	Asp	Val	Trp	Glu	Thr
		35					40					45			
Leu	Thr	Thr	Asp	Ala	Asp	Leu	Asn	Tyr	Thr	Asp	Glu	Lys	Glu	Thr	Val
	50					55				60					
Ser	Leu	Ser	Ser	Leu	Val	Met	Ser	Ala	Thr	Ser	Ala	Ile	Tyr	Gln	Ala
65					70				75					80	
Ile	Thr	Asp	Gly	Trp	Thr	Met	Cys	Val	Gly	Tyr	Ser	Gly	Gly	Lys	Asp
			85					90					95		
Ser	His	Ser	Leu	Leu	His	Leu	Phe	Leu	Met	Ala	Leu	Ile	Arg	Ala	Val
			100					105					110		
Arg	Asn	Gly	Thr	Asn	Ile	Ser	Glu	His	His	Phe	Ile	Gln	Met	Ser	Asp
		115					120					125			
Thr	Asn	Tyr	Tyr	His	Thr	Val	Thr	Ala							
	130					135									

<210> 10429

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10429

Asp	Ile	Cys	Gly	Asp	Leu	Ile	Ser	Thr	Leu	Trp	Thr	Phe	Ile	Asp	Ile
1				5					10					15	
Leu	Thr	Glu	Lys	Phe	Glu	Trp	Tyr	Phe	Thr	Leu	Trp	Ala	Lys	Gln	Thr
			20					25					30		
Ile	Gly	Glu	Leu	Leu	Tyr	Arg	Ile	Ala	Leu	Ala	Ile	Pro	Lys	Gln	Glu
		35					40				45				
Ile	His	Lys	Ser	Ser	Pro	Pro	Phe	Met	Ser	Ile	Ile	Asn	Phe	Asn	Arg
	50					55					60				
Leu	Ser	Thr	Ala	Pro	Phe	Asp	Arg	Thr							
65					70										

<210> 10430

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10430

Ala	Lys	Pro	Leu	Ala	Arg	Ser	Leu	Ser	Val	Arg	Phe	Ala	Lys	Thr	Ser
1				5					10					15	
Tyr	Gln	Tyr	Leu	Met	Ala	Val	Gly	Asn	Leu	Arg	Asp	Ala	Tyr	Ala	Ile
			20					25					30		
Arg	Pro	Asn	Arg	Leu	Glu	Asn	His	Leu	Ile	Ala	Glu	Ile	Ser	His	Pro
		35					40					45			
Leu	Phe	Ala	Asp	Asp	Val	Leu	Leu	Phe	Phe	Leu	Phe	Val	Phe	Ala	Ile
	50					55					60				
Leu	His	His	Leu	Ile	Gln	Val	Leu	Ile	Cys	Glu					
65					70				75						

<210> 10431

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10431

His Asp Trp Phe Ile Gly Thr Ile Tyr Ser Pro Tyr Val Met Asn Ile
 1 5 10 15
 Phe Leu Pro Gln His Leu Asp Ile Ala Asn Pro Tyr Val Lys Ile Gln
 20 25 30
 Lys Lys Ser Glu Gln Asp Arg Glu Met Glu Ser Lys Asn Ser Ser Phe
 35 40 45
 Tyr Phe Asp Arg Val Asp Phe Leu Ser Lys Ser Ile Ser Tyr Ser Thr
 50 55 60
 Leu Met Ile Ser Cys Leu Ser Ile Val Gly Ile Phe Leu Asn Ser His
 65 70 75 80
 Trp Leu Tyr Gly Ile Ala Thr Leu Thr Phe Ile Ile Gln Leu Leu Thr
 85 90 95
 Trp Phe Ala Met His Phe Lys Thr Ser Tyr Ala Ala Lys Ala Ile Glu
 100 105 110
 Thr Lys Arg Leu Glu Met Leu Arg Gly Ile Ile Gly Glu Glu Asn Phe
 115 120 125
 Tyr Arg Glu Arg Leu Tyr Ile Asp Gly Asn Ala Glu Asn Lys Asn Gly
 130 135 140
 Phe Arg Ala Glu Arg Leu Ile Thr Leu Ile Gln Glu Asn Ala Tyr Trp
 145 150 155 160
 Asn Ser Ile Leu Tyr Ile Lys Ala Phe Gln Gln Lys Leu Phe Tyr Leu
 165 170 175
 Leu Leu Thr Ile Leu Leu Leu Ile Thr Ile Ile Ile Ile Met Tyr Thr
 180 185 190
 Thr Leu Thr Asp Asn Leu Asp Phe Gln Tyr Ser Arg Ala Ile Phe Gly
 195 200 205
 Ile Leu Val Ile Asn Asn Phe Tyr Asn Leu Phe Ser Glu Val Ser Gly
 210 215 220
 Phe Leu Asn Ala His Asn Glu Met Lys Lys Ile Asp Ser Phe Ile Glu
 225 230 235 240
 Ile Asn Asn Arg Lys Ala Pro Glu Tyr Leu Ser Tyr Ile Tyr Ser Lys
 245 250 255
 Tyr Glu His Glu Ile Phe Ile Ala Pro Ser Ile Asn Asn Ala Ile Tyr
 260 265 270
 Leu Lys His Ser Met Gln Ile Lys Gln Thr Trp Ala Gln Arg Leu Tyr
 275 280 285
 Asn Lys Asn Asn Phe Gln Ser Lys Gln Leu Ile Asp Ala Ile Thr Glu
 290 295 300
 Phe Thr Leu Val Arg Pro
 305 310

<210> 10432

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 10432

Pro Pro Leu Arg Ala Pro Leu Pro Leu Val Ala Gly Val Glu Asn Gln
 1 5 10 15
 Arg Leu Ile Ala His Pro Ser Gly Ser Gly Leu Phe Ala Asp Val Leu
 20 25 30
 Thr Leu Lys Thr His Ser Ser Gly Asp Glu Val Ile Ser Arg Tyr Thr
 35 40 45
 Val Gln Lys Asp Tyr Asn Pro Gln Glu Gly Gly Glu Asn Tyr Phe Leu
 50 55 60
 Ile Lys Ala Ala Cys Ala Ala Arg Asp Tyr Pro Ala Leu Ala Asn Asp
 65 70 75 80
 Ile Tyr Phe Thr Val Val Asn Trp Asp Leu Leu His Arg Ser Asn Leu
 85 90 95

Val Leu Ala Glu Leu Leu Lys Thr Val Asn Leu Ser Ala Lys Asn Ser
 100 105 110
 Ser Gly Phe Lys Val Pro Glu Ser Trp Gln Val Asn Pro Leu Thr Glu
 115 120 125
 Thr Arg Leu Val Val Glu His Ser Phe Asp Gly Ile Asn Tyr Gly Val
 130 135 140
 Ile Asn Leu Cys Phe Phe Ser Gln Glu Met Leu Phe Thr Ala Gln Asp
 145 150 155 160
 Val Phe Ser Val Ser Ile Lys Arg Phe His Asp Arg Glu Pro Ala Val
 165 170 175
 Thr Leu Lys Thr Glu Ala Leu Ala Thr Ile Pro Asn Glu Phe Asn Pro
 180 185 190
 Ser Leu Gly Lys Thr Leu Trp Thr Cys Arg Gly Glu Met Phe Ser Ala
 195 200 205
 Glu Glu Glu Met Arg Ala Val Tyr Gln Cys Tyr Ile Phe Ser Val Gly
 210 215 220
 Lys Val Trp Cys Tyr Ala Glu Leu Ile Gly Arg His Arg Asn Tyr His
 225 230 235 240
 Asp Tyr His Phe Glu Ala Asn Lys Arg Cys Leu Glu Ile Ile Leu Ser
 245 250 255
 Thr Phe His Ile Glu Asn Val
 260

<210> 10433

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 10433

Leu Thr Glu Ser Thr Ala Met Asn Glu Met Thr Met Phe Gly Tyr Val
 1 5 10 15
 Asp Arg Ala Leu Thr Leu Ala Gln Lys Arg Tyr Ala Asp Val Lys Asn
 20 25 30
 Arg Asp Pro Gln Ser Pro Leu Leu Gln Met Tyr Asp Ser Ile Val Gln
 35 40 45
 Gln Leu Leu Phe Leu Arg Asp Leu Ile Glu Gly Lys Glu Lys Asp Arg
 50 55 60
 Ala Lys Leu Trp Asp Met Thr Phe Gly Met Tyr Ala Gly Lys Glu Phe
 65 70 75 80
 Asp His Ser Asp Glu Leu Phe Phe Glu Arg Leu Ser Asp Ala Trp Phe
 85 90 95
 Ile Val Asp Gln Ile Arg Arg Gly Leu Lys Val Arg Leu Pro His Glu
 100 105 110
 Val Asp Thr Asn Tyr Asn Lys Lys Lys Gln Asn Leu Met Lys Lys Phe
 115 120 125
 Pro Asp Glu Phe
 130

<210> 10434

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10434

Phe Ser Glu Val Ser Tyr Ser Thr His Gly Ile Arg Tyr Gln Glu His
 1 5 10 15
 Ile Asn Ala Ser Lys Asn Asp Ala Cys Asn Asn Ser Lys Ser Tyr Lys
 20 25 30
 Arg Pro Glu Ile Ser Gln Val Ile Gly Phe Met Ser Asp Thr Ala Tyr
 35 40 45
 Ser Ile Tyr Leu Lys Lys Trp Gln Ser Lys Tyr Tyr His Gln Ile Gln

50 55 60
 Ile Lys Lys Lys Thr Asn Asn Asn His Asn Gln Val Val His Asn Ile
 65 70 75 80
 Thr Ser Leu

<210> 10435
 <211> 135
 <212> PRT
 <213> Enterobacter cloacae

<400> 10435
 Cys Val Lys Gln Leu Lys Thr Leu Asn Gly Arg Thr Gly Glu Val Thr
 1 5 10 15
 Lys Met Thr Thr Asn Thr Thr Thr Thr Tyr Arg Ser Glu Glu Ile
 20 25 30
 Val Pro Phe Arg Arg Pro Lys Gly Asp Leu Asp Ser Arg Tyr Met Pro
 35 40 45
 Gln Val Tyr Ala Met Val Arg Asn Trp Ala Ser Asn Pro Ala Gln Tyr
 50 55 60
 Gly Glu Gly Val Leu Ala Ser Tyr Arg Gln Pro Ala Val Asn Leu Ala
 65 70 75 80
 Tyr Gln Val Lys Gly Thr Arg Val Val Leu Ile Leu Val Pro Val Glu
 85 90 95
 Cys Glu Pro Pro Gly Val Ile Met Thr Glu Thr Val Leu Trp Pro Ser
 100 105 110
 Leu Ser Leu Val Glu Val Leu Gln Thr Leu Gln Glu Ala Trp Gln Asn
 115 120 125
 Ile Pro Ala Leu Asn Pro
 130 135

<210> 10436
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 10436
 Ser His Thr Lys Glu Gly Ile Met Asn Thr Phe Leu Tyr Val Leu Leu
 1 5 10 15
 Ala Trp Ile Val Val Leu Phe Ile Ala Asn Lys Leu Leu Ala Arg Arg
 20 25 30
 Lys Pro Asn Thr Val Lys Ile Leu Val Gln Arg Asn Gly Lys Ala Ala
 35 40 45
 Glu Val Asp Ala Val Val Val Gln Gly Ser Lys Arg Ala Asn Asn Ser
 50 55 60
 Ser Val Ala Asp Ser Asp Ala Val Asp Ser Tyr Phe Glu Met Asn Pro
 65 70 75 80
 Tyr Ser Arg Glu Asn Gln Ala Asn Gly Trp Ala Met Leu Ala Arg Asp
 85 90 95
 Asp Asp Gln Leu Lys
 100

<210> 10437
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 10437
 Pro Phe Arg Leu Asp Ala Ile Lys Leu Thr Thr Ser Val Tyr Asp Asp
 1 5 10 15
 Asp Ile Asp Thr Phe Gln Phe Ser Ser Leu Lys Ser Arg Leu Asn Ser

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<210> 10438
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

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<210> 10439
<211> 187
<212> PRT
<213> Enterobacter cloacae
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<210> 10440

<211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 10440

```
Ser Pro Asn Cys Leu Phe Ser Ile Asn Lys Gly Asn Leu Arg Asn Thr
1      5      10      15
Leu Arg Ile Ser Ala Ser Ile Ile Asn Lys Phe Asn Tyr His Ser Tyr
20      25      30
Cys Glu Trp Ile Arg Ser Lys Ser Val Glu Pro Thr Asn Leu Pro Ala
35      40      45
Lys Arg Leu Asn Glu Thr Ser Gly Glu Asp Lys Pro Gln Ile Phe Pro
50      55      60
Asp Val Phe Thr His
65      70
```

<210> 10441

<211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10441

```
Asn Ser Gly Ser Gly Ser Ser Asn Glu Asp Leu Cys Pro Val Ile Ile
1      5      10      15
Val Thr Lys Tyr Arg Ile Lys Pro Ser Leu Ser Leu Ala Asn Asp Glu
20      25      30
Asn Leu Phe Tyr His Ser Lys Asn Gln Gly Gly Leu Ile Arg Pro Glu
35      40      45
Arg Phe Gln Val Thr Leu Ser Ser Gly Cys Thr Asn His Pro Pro Thr
50      55      60
Phe Thr
65
```

<210> 10442

<211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 10442

```
His Thr Pro Arg Asn Lys Met Asn Ile Glu Val Leu Arg Tyr Leu Glu
1      5      10      15
Ser Asp Gly Arg Glu His Val Glu Glu Lys Val Gln Pro Thr Lys Tyr
20      25      30
Asp Ser Glu Ala Thr Phe Ala Val Ile Lys Ile Leu Ile Ala Asn Asp
35      40      45
Gly Asn Ala Asp Ala Leu Ser Asp Lys Gln Lys Phe His Leu Lys Thr
50      55      60
Phe Val Glu Pro Leu Ile Asn Arg Val Pro Cys Ser Gly Ile Tyr Gly
65      70      75      80
Glu Asp Thr Cys Thr Gly Asp Gly Phe Val Asp Asp Glu Ser Leu Leu
85      90      95
Met Ser Tyr Gln Glu Asp Asp Phe Met Cys Gln His Cys Arg Tyr Asp
100      105      110
Ala Glu Asn Arg His
115
```

<210> 10443

<211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 10443

Lys Gly Gly Gly Met Ser Arg Lys Ser Thr Tyr Lys Thr Lys Ala Glu
 1 5 10 15
 Asn Glu His Leu Ala Arg Val Ala Ala Leu Gly Cys Ile Val Cys Lys
 20 25 30
 Asn Ile Gly His Glu Asp Thr Pro Ala Glu Ile His His Cys Ser Lys
 35 40 45
 Gly Thr Gly Leu Ala Val Arg Ala Asp Asn Phe His Val Ile Pro Leu
 50 55 60
 Cys Ala Ile His His Arg Gln Gly Gly His Gly Val Ala Ile His Ala
 65 70 75 80
 Gly Arg Asn Thr Trp Val Gln Lys Tyr Gly Thr Glu Ala Glu Leu Leu
 85 90 95
 Ala Gln Val Asn Ala Glu Leu Gly Ile Ala Ala Trp His Ser Ile Gln
 100 105 110
 Ser Ile Ser Ser His Tyr Asn Leu Asn Gly Ala Ala Ser Leu Leu Lys
 115 120 125
 Glu Glu Asn Lys
 130

<210> 10444

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10444

Ala Asn Leu Asn Tyr Ser Asp Val Ser Asn Asp Asn Thr Leu Cys Lys
 1 5 10 15
 Tyr Thr Val Trp Trp Phe Leu Thr Gly Asp Ile Met His Ile Ser Asp
 20 25 30
 Asp Val Ile Pro Gly Ala Ala Gly His Thr Gly Pro Val Leu Val Tyr
 35 40 45
 Leu Glu Cys Gly Arg Ile Ser Gly Gly Phe Val Leu Gln Pro Asp Glu
 50 55 60
 Phe Val Thr Ser Leu Ala Ala Leu Asp Glu Ala Arg Gln His Ala Gly
 65 70 75 80
 Leu Thr Pro Cys Ser Phe Ser His Pro Val Ser Asp Leu
 85 90

<210> 10445

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10445

Thr Val Asn Arg Ser Phe Cys Tyr Trp Tyr Leu Ser Glu Asn Asn Cys
 1 5 10 15
 Lys Glu Lys Glu Met Leu Gly Trp Tyr Cys Lys Lys Arg Ser Ala Asn
 20 25 30
 Arg Thr Arg Val Arg Arg Gly Gly Asp Val Asn Ala Ile Lys Trp Gly
 35 40 45
 Asp Ala Pro Pro Leu Leu Tyr Cys Phe Asn Ser Ser Leu Ile Phe Cys
 50 55 60
 Leu Ile Met Ile Arg Gln Cys Asn Lys Lys Lys Thr Val Thr Met Ala
 65 70 75 80
 Ser Gln Thr Gln Asn Lys Gln Ala
 85

<210> 10446

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10446

Leu Pro Pro Pro Asn Gly Ala Leu Met Pro Pro Ser His Val Val Glu
 1 5 10 15
 Asp Lys Arg Met Lys Asn Ile Arg Thr Val Lys Lys Val Phe Ser Glu
 20 25 30
 Met Leu Val Arg Phe Glu Asn Phe Gln Glu Ile Cys Arg Leu Tyr Val
 35 40 45
 Asp Arg Lys Met Glu Leu Cys Phe Thr Thr Asp Ser Ala Asp Arg Ser
 50 55 60
 Lys Leu Trp Glu Ile Gln Ser Arg Glu Asn Cys Ser Tyr Gly Glu Ala
 65 70 75 80
 Ile Glu Ile Leu Tyr Ala Gln Glu Val Ala Ala Gly Leu Ala Ala
 85 90 95

<210> 10447

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10447

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
 1 5 10 15
 Phe Gly His His Ile Thr Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
 20 25 30
 Thr Glu Gln Gln Leu Gly His Cys His Pro Leu Ala Asp Leu Thr Pro
 35 40 45
 Leu Ile Ala Lys Leu Ala Phe Ser Pro Asp Ser Val Leu Pro Ser Trp
 50 55 60
 Ala Gly Leu Leu Thr Leu Ala Pro Leu Ile Arg Asn Ala Pro Ala Asp
 65 70 75 80
 Lys Asp

<210> 10448

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 10448

Arg Glu Tyr Tyr Arg Tyr Gly Asp Ala Arg Arg Phe Thr Ser Glu Ser
 1 5 10 15
 Ile Leu Met Asn Phe Gln Thr Asn Glu Val Phe Asn Lys Phe Ala Ala
 20 25 30
 Val Ile Lys Ser Arg Ile Val Asn Glu Pro Ser Ser Cys Tyr Leu Leu
 35 40 45
 His Asp Asn Glu Ile Asp Ile Thr Ile Leu Lys His Gly Ile Leu Glu
 50 55 60
 Asn Asp Arg Asn Leu Leu Tyr Val Val Arg Pro Ser Gly Thr Cys Leu
 65 70 75 80
 Leu Arg Cys Asp Lys Tyr Phe Tyr Pro Lys Tyr Tyr Leu Arg Cys Arg
 85 90 95
 Gly Asp Tyr Lys Ser Phe Ile Tyr Val His Leu Asp Leu His Ser Gly
 100 105 110
 Glu Ala Lys Glu Ile Thr Trp Glu Gln Ala Asp Asp Met Leu Ser Ser
 115 120 125
 Pro Gly Lys Pro Pro Leu Lys Gly Asn Leu Gly Arg Phe Glu Tyr Ile
 130 135 140
 Lys Val Val Val Glu Asp Leu Arg Ile Arg Gly Tyr Ala Asp Tyr Leu
 145 150 155 160

Pro Ala Tyr Asn Leu Asp Asp Leu Arg Arg Phe Ala Leu Gln Asp Asp
 165 170 175
 Arg Pro Ser Leu Val Arg Tyr Ile Asp Asn Val Met Ala Thr Val
 180 185 190

<210> 10449

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10449

Trp Pro Thr Cys Ile Arg Glu Ala Ser Ile Thr Thr Gly Gly Cys Met
 1 5 10 15
 Lys Leu Ala Thr Asp Leu Val Lys Ala Ile Leu Ile Arg Asn Gly Val
 20 25 30
 Glu Pro Val Asn Ile Ser Glu Ser Ser Lys Leu Ser Leu Lys Gln Pro
 35 40 45
 Leu Thr Glu Leu Lys Phe Ser Leu Tyr Leu Arg Thr Glu His Leu Ser
 50 55 60
 His Phe Leu Pro Gly Tyr Val Tyr Ser Ile Lys Glu Cys Pro Leu Ser
 65 70 75 80
 Tyr Asp Ile Gly Ile Glu Ile Gln Lys Ile Phe Glu Ser Leu His Leu
 85 90 95
 Leu Asn Glu Glu Phe Glu Ser Leu Gly Phe Val Ser Val Trp Ile Glu
 100 105 110
 Met His Gln Ser Ile Phe Glu Gln Ser Arg Phe Lys Lys Ser Asn Phe
 115 120 125
 Thr Phe Arg Glu Glu Glu Val Glu Leu Ala Lys Gly Leu Val Cys Ser
 130 135 140
 His Asn Ser Gln Ile Ser Asn Ala Ala Tyr Phe Trp Leu Gln His Phe
 145 150 155 160
 Glu Glu Phe Met Ile Tyr Val Arg Asn Lys Leu Ile Asp Leu Phe Arg
 165 170 175
 Glu Ala Tyr Asp Leu Ile Leu Gly Met Gln Gln Val Phe Phe Ile Arg
 180 185 190
 Glu Lys Glu Glu Leu Leu Lys Thr Ile Ser Tyr Gly Asp Asp Leu Tyr
 195 200 205
 Glu Val Lys Leu Met Ala Ala Glu Leu Tyr Ser Ile Glu Gln Asn Leu
 210 215 220
 Lys Cys Ser Glu Ser Ile Ser Thr Lys Ser Gln Ala Ser Ala Tyr Ile
 225 230 235 240
 Asn Arg Ile Arg Glu Phe Val Arg Ser Gly Trp Arg Gln Gly Tyr Ile
 245 250 255
 Val Cys His His Lys Arg Ser Asn Gln Ile Ser Ser Leu Ser Leu Pro
 260 265 270
 Met Tyr Leu Lys Asp Thr Ser Gly Arg Ser Ala Arg Lys Arg Val Lys
 275 280 285
 Arg Leu Ile Ser Ser Thr Val Cys Gly Arg Asn Lys Asp Leu Gly Leu
 290 295 300
 Thr Asp Phe
 305

<210> 10450

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 10450

Ser Ile Asn Val Glu Gly Pro Arg Ala Leu Phe Leu Lys Phe Cys Val
 1 5 10 15
 Val Gly Phe Ser Leu Ser Ser Ala Pro Gln Lys Ala Leu Arg Asn Ser


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<210> 10451
<211> 115
<212> PRT
<213> Enterobacter cloacae
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<400> 10451

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Ser Leu Phe Leu Leu Arg Glu Asp His Met Lys Ile Ile Glu Lys Ile
1      5      10      15
Ile Asn Ala Phe Leu Val Val Gln His Lys Lys Ile Gln Val Lys Asn
20      25      30
Ile Thr Phe Leu Asp Asn Gly Gln Gly Met Phe Ser Gly Met Ser Phe
35      40      45
Asp Ala Asp Val Ser Leu Glu Phe Met Tyr Glu Ser Ala Lys Ala Tyr
50      55      60
Ser Ser Cys Phe Cys Asp Ile Pro Phe Pro Gly Phe Glu Asp Ala Asn
65      70      75      80
Leu Glu Glu Ile Thr Lys Phe Gln Leu Asp Ala Leu Lys Gln Arg Lys
85      90      95
Asn His Leu Val Pro Leu Leu Ser Ser Ser Gly Arg Ala Arg Ser Ile
100      105      110
Lys Thr Pro
115

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<210> 10452

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10452

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Asp Lys Cys Ser Val Arg Lys Tyr Lys Leu Asn Leu Ser Ser Val Ser
1      5      10      15
Gly Cys Phe Lys Asp Asn Leu Asp Asp Ser Leu Ile Phe Thr Gly Ser
20      25      30
Thr Pro Phe Leu Ile Lys Ile Ala Phe Thr Arg Ser Val Ala Asn Phe
35      40      45
Ile Gln Pro Pro Val Val Ile Glu Ala Ser Leu Met Gln Val Gly His
50      55      60
Gln Gly Lys Tyr Val Asn Gln Leu Ala Thr Asn Gln Thr Val Ala Ile
65      70      75      80
Thr Leu Ser Met Tyr Leu Thr Arg Asp Gly Arg Ser Ser Cys Lys Ala
85      90      95
Lys Arg Arg Arg Ser Ser Arg Leu Tyr Ala Gly Arg
100      105

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<210> 10453

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10453

```

Arg Ser Ser Asp Ser Arg Leu Arg Glu Cys Lys Ile Gly Tyr Tyr Met
1      5      10      15
Asn Ile Asn Lys Asp Asp Glu Leu Leu Val Ile Val Lys Tyr Glu Gly
20      25      30
Arg Phe Tyr Trp Phe Val Ala Phe Lys Glu Met Trp Val Leu Asp Arg
35      40      45
Val Lys Trp Val Glu Asp Phe Val Lys Ser Gly Val Glu Ile Asn Leu
50      55      60
Gln Asn Thr His Lys Glu Arg Tyr Asp Ile Pro Val Val Asn Glu Glu
65      70      75      80
Asn Ala Gln Ile Phe Ile Asp Gly Leu Ile Asn Asp Gly Tyr Ser Tyr
85      90      95
Asp Lys Asp Asp Ile Ala Glu Glu Phe Tyr Lys Arg Leu Ser Gln Lys
100      105      110
Thr Ile Trp Trp Asp Ile Tyr Glu Leu Met Pro Asp Leu Phe Ile Asp
115      120      125

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Phe Asp Asn Lys Arg Leu Tyr Ser Glu Tyr Val Glu Ser Met His Tyr
 130 135 140
 Gln Glu Tyr Val Pro Asp Gly Trp Gln Gly Glu Leu Val Asp Phe Cys
 145 150 155 160
 Ser Asn Gly Ser Leu Pro Gln Asp Glu Met Phe Trp Ile Lys Asn Glu
 165 170 175
 Thr Asp His Arg Ser Val Leu Ile Ala Lys Gly
 180 185

<210> 10454

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10454

Val Val Phe Asp Pro Leu Pro Glu Asp Ala Phe Gly Ala Asn Val Asn
 1 5 10 15
 Ile Lys Ile Asp Lys Val Phe Lys Leu Asp Gln Asn Ala Gln Arg Cys
 20 25 30
 Ile Val Val Pro Phe Phe Ile Thr Asp Lys Asn Lys Ile Gln Ile Ala
 35 40 45
 Ser Ala Thr Glu Lys Phe Asp Val Ser Ile Asn Val Thr Gly Lys Ile
 50 55 60
 Tyr Ser Leu Phe Tyr Glu Val Cys Glu Gly Asp Glu Ile Tyr Tyr Asn
 65 70 75 80
 Phe Thr Leu Val Pro Glu Lys Glu Ala Ile Thr Ala Lys Phe Leu Leu
 85 90 95
 Asp Asp Pro Trp Gly Gly Lys Lys Tyr Asn Pro Leu Lys Glu Gly Phe
 100 105 110
 Phe

<210> 10455

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10455

Thr Ala Thr Ser Thr Glu Pro Leu Pro Leu Glu Asp Ser Ala Glu Lys
 1 5 10 15
 Val Thr His Asn Arg Leu Thr Gln Leu Asn Val Ile Arg Trp His Tyr
 20 25 30
 Cys Tyr Asp Gly Glu His His Leu Thr Glu Val Ile Ser Gln Leu Arg
 35 40 45
 Asp Arg Asn Arg Pro Arg Thr Gln Val Ser Phe Arg Tyr Pro His Thr
 50 55 60
 Leu
 65

<210> 10456

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10456

Gln Tyr Thr Ile Asp Gln Gly Asn Glu Phe His Asp Asn Gln Lys Tyr
 1 5 10 15
 Ala Glu Ala Leu Glu Gln Asn Gln Lys Ala Trp Gln Ala Leu Pro Glu
 20 25 30
 Pro Lys Leu Glu Trp Glu Leu Ala Asn Trp Ile Ala Ala Cys Met Tyr
 35 40 45

Ser Ala Cys Phe Asp Leu Ala Asp Tyr Ala Glu Glu Asn Lys Trp Gly
 50 55 60
 Lys Thr Thr Leu Arg Thr Arg Gly Ser Asp Ile Asp Thr Ala Pro Leu
 65 70 75 80
 Ile Asp Leu Gly Met Val Cys Tyr Glu
 85 90

<210> 10457

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10457

Arg Ile Lys Tyr Ile Phe Gly Lys Pro Phe Leu Asp Ile Ala Met Val
 1 5 10 15
 Asp Ser Thr Arg Gln Phe Val Phe Val Leu Ser Glu Thr Lys Pro Leu
 20 25 30
 Pro Ile Val Leu Thr Ile Phe Asn Ala Gln Gly Glu Lys Leu Phe Trp
 35 40 45
 Ser Thr Ser Pro Glu Ser Ala Ile Phe Tyr Tyr Leu Thr Leu Asn Gln
 50 55 60
 Ser Lys Glu Val Val Val Val Cys Asn Phe Thr Val Ile Gln Asn Gly
 65 70 75 80
 Trp His Asn Trp Phe Tyr Ser Trp Asp Met Lys Arg Asn Ala Leu Ser
 85 90 95
 Arg Ser Gly Pro Ser Tyr
 100

<210> 10458

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10458

Thr Cys Tyr Tyr Asn Ser Gly Val Lys Ala Met Thr Asp Glu Glu Leu
 1 5 10 15
 Arg Lys Asn Leu Val Phe Leu Ile Lys Lys Tyr Val Pro Glu Ser Gln
 20 25 30
 Gln Lys Ala Phe Tyr Asp Asp Ile Ser Lys Ser Thr Val Pro Val Lys
 35 40 45
 Gly Ile Leu Ala Asp Phe Asn Lys Ile Lys Thr Arg Thr Val Asp Glu
 50 55 60
 Val Asp Gly Asp Leu Ile Arg Asp Ile Tyr Phe Tyr Phe Cys
 65 70 75

<210> 10459

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10459

Gln Ile Gln Gln Glu Gln Leu Asn Gln Glu Lys Lys Ala Lys Glu Ala
 1 5 10 15
 Lys Ala Glu Glu Thr Asp Arg Pro Ser Ser Ile Thr Ile Ser Thr Ala
 20 25 30
 Asn Ser Gly Glu Gly Lys Glu Asn Lys Glu Asn Ala Glu Thr Gly Ser
 35 40 45
 Gly Lys Glu Pro Glu His Thr Glu Arg Asn Lys Asp Thr Asn Lys Thr
 50 55 60
 Thr Lys Ala Gln Gly Lys Gly Lys Gly Lys Thr Asn Ser Ala Gly Tyr
 65 70 75 80

Asn Gln Arg Thr Ala Pro Gly Glu Thr Glu Arg Ala Pro Gln Arg Ala
 85 90 95
 Glu Arg His Gly Lys Asn Gln Arg Glu Ala Ala Ser Arg Thr Gly Gly
 100 105 110
 Glu Thr Glu Lys Pro Lys Glu Glu Glu Arg Thr Gly Ala Arg Arg Pro
 115 120 125
 Arg Pro Glu Arg Pro Arg Ser Gly Pro Ala Lys Thr Pro Lys Pro Gly
 130 135 140
 Gly Gly Ala Gln Ser Thr Glu Ile Thr Gln Ile Lys Thr Ala Gly Leu
 145 150 155 160
 Ala Gly Asn Ala Ile Pro
 165

<210> 10460

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10460

Ser Pro Gly Arg Cys Glu Thr Trp Ser Ser Val Phe Ser Ala Thr Arg
 1 5 10 15
 Gly Trp Cys Pro Lys Ile Gln Thr Ala Glu Val Leu His Ala Lys Trp
 20 25 30
 Pro Glu Leu Val Leu Arg Leu Cys Pro Val Lys Leu Ala Asp Ser Asn
 35 40 45
 Gly Val Phe Gly Lys Asn Lys Cys Asp Ser Thr Ile Pro Lys Gly Phe
 50 55 60
 Arg Gly
 65

<210> 10461

<211> 88

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (16)

<400> 10461

Ile Cys Pro Arg Thr Tyr Arg Arg Asn Phe Asn Thr Arg Lys Val Xaa
 1 5 10 15
 Thr Ser Phe Pro Leu Ala Glu Lys Lys Ala Arg Thr Val Gln Val Arg
 20 25 30
 Ala Phe Phe Cys Phe Ser Cys Thr Arg Gln Pro Ala Ser Leu Pro Val
 35 40 45
 Val Met Met Met Val Val Val Met Val Val Met Leu Met Arg Phe Met
 50 55 60
 Asp Val Val Tyr Ser Val Ile Ile Ile Cys Leu Cys Ser Ile Leu Leu
 65 70 75 80
 Gly Leu Lys Asp Arg Ala Pro
 85

<210> 10462

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 10462

Arg Val Gly Pro Arg Ser His Pro Ala Gly Gly His Met Ser Glu Pro
 1 5 10 15

Arg Ser Asn Ala Gln Met Phe Asp Ile Asp Met Ser Ala Leu Arg Glu
 20 25 30
 Leu Arg Glu Ala Val Gly Ala Thr Gln Gln Gln Met Leu Met Ala Tyr
 35 40 45
 Asn Arg Ala Leu Asn Arg Thr Ala Lys His Met His Arg Val Ser Val
 50 55 60
 Gly Met Met Ile Asp Ala Leu Ala Val Lys Lys Arg Lys Val Ala Asn
 65 70 75 80
 Lys Arg Ile Lys Pro Phe Val Lys Arg Arg Asn Phe Gly Lys Glu Ser
 85 90 95
 Thr Gly Glu Leu Ser Ser Ala Lys Leu Trp Tyr Gly Leu Asn Asp Phe
 100 105 110
 Arg Val His Asp Leu Arg Gly Ser Met Arg Lys Gln Arg Lys Gln Lys
 115 120 125
 Gln Lys Arg Asp Pro Glu Thr Gly Gln Phe Met Lys Thr Glu Lys Gly
 130 135 140
 Ala Arg Gly Ala Thr Phe Ile Pro Lys Ser Ala Gly Leu His Ser Met
 145 150 155 160
 Ser Trp Pro Asp Ser Phe Val Ala Lys Arg Tyr Ser Val Lys Ser Ile
 165 170 175
 Trp Ile Arg Arg Glu Gly Gly Gly Val Glu Glu Ala Arg Val Pro Val
 180 185 190
 His Glu Ala Leu Glu Asp Ala Ile Asp Asp Tyr Ile Phe Glu Asn Ile
 195 200 205
 Gly Ser Val Phe Met Arg Tyr Phe Glu Gln Asp Leu Arg Gly Arg Val
 210 215 220
 Ala Gly Asn Val Gln
 225 230

<210> 10463

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 10463

Ala Gly Phe Thr Gly Pro Arg Gly Gly Glu Arg Ser Met Thr Ala Thr
 1 5 10 15
 Ala Glu Ala Gly Met Asp Ala Phe Asp Glu Tyr Thr Asn Arg Val Arg
 20 25 30
 Ala Ala Val Leu Gln Ile Pro Phe Val Lys Thr Phe Gly Val Tyr Pro
 35 40 45
 Glu Ile Pro Glu Gly Phe Gln Thr Pro Ala Val Phe Phe Glu Ile Glu
 50 55 60
 Asn Trp Glu Pro Ser Ser Glu Val Ile Ala Gly Ser Ala Leu Thr Val
 65 70 75 80
 Ser Leu Asn Cys Ser Leu Tyr Val Leu Arg Glu Phe Ala Ala Asp Gln
 85 90 95
 Tyr Gly Gln Lys Ala Arg Asn Ala Ala Leu Tyr Ile Ser Ser Trp Ile
 100 105 110
 Asp Gly Arg Gly Phe Gly Pro Ala Thr Leu Pro Ala Thr Phe Gly Gly
 115 120 125
 Ser Glu Pro Ala Asp Trp Ile Lys Asn Gly Lys Ala Leu Gly Ser His
 130 135 140
 Ser Val Trp Cys Val Ser Phe Ser Gln Val Val Gly Val Gly Val Gly
 145 150 155 160
 Pro Phe Val Thr Pro Ala Asp Ala Pro Leu Leu Lys Glu Val Phe Val
 165 170 175
 Gly Leu Ala Pro Asp Ile Gly Lys Glu His Glu Ala Asp Tyr Val Arg
 180 185 190
 Val Phe Pro Arg
 195

<210> 10464
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10464
 Gly Arg Arg Gly Lys Arg Ser His Pro Arg Gln Gln Ala Ala Tyr Lys
 1 5 10 15
 Leu Thr Val Leu Leu Ile Pro Phe Arg Phe Leu Ala Cys Arg Leu Val
 20 25 30
 Val Asp Ile Val Phe Asn Thr Ser Phe Lys Arg Asn Cys Leu Val Lys
 35 40 45
 Leu Arg Met Gly Val Leu Leu Thr Gly Leu Leu Leu Ala Gly Cys
 50 55 60
 Asp
 65

<210> 10465
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 10465
 Asn Thr Leu His Gly Gln Leu Ala Asp Met Lys Val Lys Ile Ser Arg
 1 5 10 15
 Met Ser Phe Gly Cys Pro Leu Ala Asp Leu Arg Arg Ser Lys His Ser
 20 25 30
 Glu Pro Arg Tyr Gly Ala Gln Asn Asp Asn Arg Asn Asn Glu Phe Cys
 35 40 45
 Gln Asp Ala Val Ser His Gln Gly Asn Ala Ala Ile Ile Ile Pro Phe
 50 55 60
 Pro Asp His Asn Phe Lys Pro Gly Thr Gln Val Lys Pro Val Cys Cys
 65 70 75 80
 Ser Gln Lys Lys His Gln Asn Lys Gln Ser Arg Leu Gly Lys Gln Tyr
 85 90 95
 Pro Pro Pro Gly Thr Val Glu
 100

<210> 10466
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (16)

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<222> (71)

<220>
<221>UNSURE
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<400> 10466

Asp	Glu	Ala	Gln	Val	Arg	Lys	Arg	Leu	Met	Pro	Val	Pro	Val	Asp	Xaa
1			5					10					15		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25					30		
Xaa	Xaa	Xaa	Gly	Leu	Thr	Asp	Lys	Asp	Val	Ala	Gly	Lys	Tyr	Val	Asn
			35				40					45			
Ala	Arg	Gly	Glu	Gln	Arg	Met	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95
 Xaa Xaa Xaa Pro Pro His Ser Cys Leu Ser Val Tyr Pro Cys Gln Ser
 100 105 110
 Ala Val Met Ala Ala Val Ser Ile Ala Thr Pro Asp
 115 120

<210> 10467
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 10467
 Asn Pro Leu Arg Ile Lys Val Ala Val Phe Ser Met Arg Gly Glu Lys
 1 5 10 15
 Arg Val Asp Glu Lys Ile Gly Gly Leu Cys Gly Ile Ser Phe Ala Gly
 20 25 30
 Asn Phe Ala Arg Gln Arg Ala Gly Ser Ala Gly Ser Ala Ser Gln Arg
 35 40 45
 Leu Glu Arg Ser Asp Ala Arg Pro Ser Gly Ala Asp Pro Gly Ala Phe
 50 55 60
 Glu Arg Tyr Cys Arg Arg Arg Pro Ser Gly Val Gln Pro Arg Arg Pro
 65 70 75 80
 Gly Arg Ala Gly Asp
 85

<210> 10468
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 10468
 Glu Asp Val Gly Trp Arg Val Thr Arg Ala Thr Lys Lys Asp Leu Ser
 1 5 10 15
 Trp Phe Asn Leu Ser Asn Tyr Asp Phe Ile Asn Asn Leu Thr Leu Ser
 20 25 30
 Glu Phe Ile Val Glu Leu Glu Trp Arg Asp Phe Leu Tyr Arg Asn Val
 35 40 45
 Asn Glu Asp Asp Leu Phe Phe Asp Glu Glu Tyr Glu Ile Lys Tyr Gln
 50 55 60
 Arg Ile Phe Gly Gly Asp Pro His Leu Asp Ile Pro Asn Glu Glu Glu
 65 70 75 80
 Lys Glu Ile Asp Glu Phe Val Arg Lys Val Asn Ser Glu Thr Pro Ser
 85 90 95
 Leu Leu Asn Met Tyr Gly Thr Leu Pro His Leu Pro Ser Asp Pro Arg
 100 105 110
 Val Ser Pro Ile Ser Phe Thr Glu Leu Ser Lys Tyr Gly
 115 120 125

<210> 10469
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (50)

<400> 10469

Pro Leu Arg Ile Arg Val Ser Ile Ser Ala Ile Gly Ser Cys Met Leu
 1 5 10 15
 Ile Cys Leu Tyr Ser Arg Asp Ser Ile Gly Asn Tyr Gln Leu Ala Phe
 20 25 30
 Phe Lys Pro Gly Thr Ser Pro Arg Met Ala Ala Ser Arg Ser Leu Ile
 35 40 45
 Arg Xaa Ser Pro Gly Gly Gly Lys Asp Lys Arg Lys Gly
 50 55 60

<210> 10470

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10470

Asn Ser Leu Lys Gln Val Glu Tyr Ser Arg Tyr Ser Ile Ser Ala Ser
 1 5 10 15
 Pro His Pro Ser Trp Gln Ala Lys Lys Glu Trp Leu Ser Gln Gln Leu
 20 25 30
 Val Thr Ser Met Cys Leu Ser Ala Lys Cys Arg Lys Ala Asn Asn Thr
 35 40 45
 Ala Ala Ala Val Val Gln Thr Gly Tyr Ser Asp Leu Leu Cys Leu Leu
 50 55 60
 Asn Thr Asp Leu Asn Leu Ser Leu Lys Leu Ala Ala Ile Phe Arg Tyr
 65 70 75 80
 Gly His Leu Val Leu Asn Ser Leu Ile Ala Thr Ser Tyr Asn Val Glu
 85 90 95
 Ile His Cys Gly Tyr Tyr Asn Tyr Tyr Tyr
 100 105

<210> 10471

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10471

Leu Ala Phe Glu Val Tyr Thr Phe Lys Pro Gly Ala Thr Ala Glu Ser
 1 5 10 15
 Phe Tyr Leu Ser Leu Ala Gln Ala Arg Lys Cys Ser Gln Phe Cys Leu
 20 25 30
 Asn Asn Pro Phe Ser Ile Lys Tyr Asp Leu Arg His Asp Asp Ser Met
 35 40 45
 Thr Pro Pro Arg Tyr Arg Gly Gly Arg Lys Phe Val Asp
 50 55 60

<210> 10472

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 10472

Arg Lys Gln Thr Ser Leu Asn His Asn Thr His Gly Asn Pro Val Trp
 1 5 10 15
 Val Ile His Leu Asn Gly Lys Glu Val Ile Met Ser Val Glu Leu Lys
 20 25 30
 Thr Phe Gly Gly Ala Tyr Phe Pro Lys Asp Lys Ala Leu Lys Lys Leu
 35 40 45
 Pro Asp Leu Lys Pro Leu Ala Ile Ala Val Asn Ala Leu Asn Lys Ser
 50 55 60
 Ile Ala Glu Ala Val Ile Phe Gly Lys Leu Ala Ala Glu His Pro Glu
 65 70 75 80

His Ile Asp Asp Tyr Phe Lys Val Lys Ile Trp Glu His Arg Glu Asp
 85 90 95
 Leu Pro Cys Pro Ala Leu Asp Asp Phe Ser Gln Asp Phe Phe Ser Thr
 100 105 110
 Val Ala Thr Trp Asn Val Asn Ala Gly Glu Pro Val Ala Ala Thr Gln
 115 120 125
 Pro Glu Val Asp Glu Ser Gln Asp Gln Ser Asp Asp Gln Gln Ala Gly
 130 135 140
 Glu Met Lys Ser Val Arg Leu Leu Asp Gln His Ser Arg Ala Ala Cys
 145 150 155 160
 Leu Ala Leu Phe Gly Pro Val Glu His Ile Thr Ala Ala Gln Tyr Gly
 165 170 175
 Gln Val Val Asp Leu Ile Asn Asp Asp Gly Cys Phe Gln Arg Glu
 180 185 190
 Met Ala Glu Ala Phe Thr Arg Glu Pro Arg Val Leu Ala Leu Ser Ala
 195 200 205
 Glu Arg Gln Lys Glu Cys Trp Arg Gly Ser Val Lys Pro Cys Trp Phe
 210 215 220
 Arg Leu Asn Gly Gln Arg Leu Lys Ser Ser Ser Pro Asn Gly Trp Ile
 225 230 235 240
 Leu Leu Gln Arg Ser Val Ser Arg
 245

<210> 10473

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10473

Leu Asp Gln Ser Gly Trp Tyr Leu Met Lys Leu Gly Asp Glu Thr Ala
 1 5 10 15
 Arg Val Val Arg Ala Leu Gln Leu Arg Gly Arg Ala Gly Ala Arg Asp
 20 25 30
 Ile Ala Cys Arg Ala Gly Met Arg Asn Glu Glu Val Ile Ala Ala Leu
 35 40 45
 Leu Asp Leu Glu Lys Arg Lys Lys Val Asp Gln Ser Asn Gly Phe Trp
 50 55 60
 Trp Leu Ala Val Asp Leu Glu Glu Lys Ser Gly Arg Asn Arg Lys
 65 70 75 80

<210> 10474

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10474

Leu Ser His Ser Phe Phe Ala Cys Gln Leu Gly Cys Gly Glu Ala Glu
 1 5 10 15
 Met Leu Tyr Leu Glu Tyr Ser Thr Cys Phe Asn Glu Phe Tyr Val Glu
 20 25 30
 Gln Leu Gln Leu Phe Asn Glu Arg Leu Gly Phe Thr Leu Asn Val Ser
 35 40 45
 Leu Arg Asp Gly Ala Thr Ile Phe Arg Val Tyr Pro His Leu Asp Gln
 50 55 60
 Pro Tyr Leu Ala Gln Asn Val Lys Asn Pro His Leu Tyr Gly Thr Leu
 65 70 75 80

<210> 10475

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 10475

Thr	Glu	Ile	Thr	Phe	Ser	Ser	Pro	Asn	Ile	Leu	Ala	Thr	Asn	Lys	Met
1				5					10					15	
Val	Val	Leu	Met	Ile	Val	Leu	Lys	Ser	Phe	Leu	Phe	Phe	Val	Gly	Ala
			20					25					30		
Ala	Ala	Ala	Cys	Ala	Leu	Ile	Val	Leu	Cys	Leu	Trp	Val	Asp	Met	Arg
		35					40					45			
Phe	Val	Gly	His	Asp	Ile	Pro	Glu	Leu	Ser	Leu	Thr	Glu	Ile	Met	Gln
	50					55					60				
Glu	Thr	Val	Leu	Ala	Ser	Ile	Val	Phe	Leu	His	Phe	Arg	Leu	Ala	Lys
65					70					75					80
Met	Tyr	Asp	Ser	Met	Arg	Tyr	Cys	Asn	Ile	Leu	Val	Gly	Gly	Phe	Phe
				85				90						95	
Leu	Thr	Met	Leu	Ile	Arg	Glu	Leu	Asp	Ala	Leu	Phe	Asp	Leu	Ile	Ser
			100					105					110		
His	Gly	Ser	Trp	Val	Trp	Phe	Ala	Leu	Ile	Thr	Ala	Val	Leu	Ala	Leu
		115					120					125			
Ile	Arg	Pro	Val	Met	His	Phe	Arg	Ala	Thr	Leu	Glu	Gln	Leu	Ala	Lys
	130						135					140			
Tyr	Thr	Gln	Ser	Pro	Trp	Tyr	Gly	Ile	Leu	Leu	Ser	Gly	Leu	Leu	Ala
145					150					155					160
Val	Leu	Val	Phe	Ser	Arg	Leu	Phe	Gly	Met	Gln	Val	Leu	Trp	His	Ala
				165				170						175	
Ile	Leu	Glu	His	Gly	Tyr	Met	Arg	Val	Val	Lys	Asn	Ala	Val	Glu	Glu
			180				185						190		
Gly	Ser	Glu	Ser	Phe	Gly	Tyr	Met	Leu	Cys	Leu	Ala	Ala	Ser	Leu	Gly
		195					200					205			
Tyr	Tyr	Val	Thr	Phe	Pro	Ala	His	Ala	Arg	Gln	Lys				
	210					215					220				

<210> 10476

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10476

Asn	Gln	Arg	Leu	Ser	Leu	Asp	Tyr	Gln	Gln	Lys	Glu	Ala	Gly	Met	Ser
1				5					10					15	
Asp	Phe	Asp	Thr	Asp	Lys	Asn	Ala	Gln	Tyr	Ala	Gly	Asp	Lys	Ala	Lys
			20					25					30		
Asn	Lys	Leu	Asp	Glu	Leu	Ser	Gly	Ser	Ala	Gln	Gln	Gln	Phe	Gly	Glu
		35					40					45			
Phe	Val	Asp	Ser	Pro	Lys	His	Gln	Val	Lys	Gly	Ala	Ala	Lys	Asn	Tyr
	50					55					60				
Ala	Val	Phe	Thr	Tyr	Glu	Ala	Asp	Arg	Ser	Ala	Leu	Arg	Cys	Ala	Gly
65					70					75					80
Gln	Gly	Gly													

<210> 10477

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10477

Ile	Cys	Arg	His	Arg	Leu	Arg	Arg	Phe	Glu	Ser	Phe	Pro	His	His	His
1				5					10					15	
Phe	Leu	Ala	Ala	Ser	Thr	Pro	Pro	Glu	Leu	Val	Gly	Lys	Ile	Asp	Gln

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<210> 10478
<211> 65
<212> PRT
<213> Enterobacter cloacae
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<210> 10479
<211> 121
<212> PRT
<213> Enterobacter cloacae
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<210> 10480
<211> 65
<212> PRT
<213> Enterobacter cloacae
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<400> 10480															
Ala	Ala	Arg	Tyr	Leu	Pro	Ala	Pro	Trp	Ala	Glu	Asp	Pro	Leu	Asn	Gln
1				5					10					15	
Pro	Tyr	Thr	Thr	Asp	Ile	Met	Gly	Thr	Ala	Thr	Ala	Pro	Asp	Pro	Glu
				20				25					30		
Thr	Leu	Thr	Leu	Asp	Val	Tyr	Tyr	Tyr	Lys	Thr	Asn	Ala	Ala	Ala	Ala

35 40 45
 Thr Val Gly Glu Leu Ser Ser Asn Val Thr Tyr Thr Ile Ser Tyr Leu
 50 55 60

65

<210> 10481

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10481

Cys Arg Thr Gly Lys Ser Ala Gln Thr Ser Gly Val Ile Met Glu Asp
 1 5 10 15
 Leu Glu Thr Thr Ile Met Glu Leu Leu Val Asn Ala Gly Ala Ala Arg
 20 25 30
 Ser Ala Ala Gln Thr Ala Lys Gln Lys Ala Arg Lys Gly Asp Lys Asp
 35 40 45
 Glu Ala Glu Lys Ala Lys Glu Glu Ser Arg Glu Lys Glu Lys Gln Val
 50 55 60
 Pro Asp Lys Arg Ser Arg Arg Ser Lys Ser Val Lys Thr Lys Gly Gln
 65 70 75 80
 Glu Asn Ser Arg Lys Thr Arg Ser Pro Ile Ile Leu Arg Thr Thr Arg
 85 90 95
 Arg Thr Arg Arg Lys Asn Arg Ile Arg Arg Ala Thr Arg Lys Ser Lys
 100 105 110
 Ile Asp Ala Ser Arg Arg Lys Thr Glu Asn Ala Asp Ile Lys Lys Pro
 115 120 125
 Ala Glu Ala Gly Phe Tyr Ile Tyr Ala His Gln Thr Lys Arg Ser
 130 135 140

<210> 10482

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10482

Glu Ser Asp Val Glu Lys Glu Gln Leu Val Glu Ile Ala Asn Thr Glu
 1 5 10 15
 Met Pro Phe Gly Lys Tyr Lys Gly Arg Arg Leu Ile Asp Leu Pro Glu
 20 25 30
 Glu Tyr Leu Leu Trp Phe Ala Arg Lys Asp Glu Phe Pro Ala Gly Arg
 35 40 45
 Leu Gly Glu Leu Met Ala Ile Thr Leu Leu Ile Lys Thr Glu Gly Leu
 50 55 60
 Thr Gln Leu Val Gln Pro Leu Lys Arg Pro
 65 70 75

<210> 10483

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10483

His Ile Pro Ile Ala Ala Arg Pro Leu Val Leu Leu Lys Leu Thr Pro
 1 5 10 15
 Ser Leu Pro Ile Pro Leu Phe Tyr Gly Glu Lys Asp Leu Asn Met Thr
 20 25 30
 Thr Leu Lys Pro Val Ser Leu Ser Ala Met Glu Ile Gly Ser Val Asp
 35 40 45
 Asn Ser Ser Gly Gly Asn Asp Ile Ala Ser Gln Ile Thr Arg Leu Thr

50		55		60
Lys Gln Ile Thr Lys Val Thr Gln Gln Leu Lys Glu Val Ala Met Gly				
65		70		75
Asp Ala Thr Ala Glu Lys Gln Lys Gln Gln Glu Leu Leu Glu Ser				80
	85		90	95
Gln Leu Ala Met Leu Gln Ala Gln Leu Ala Gln Leu Gln Arg Gln Gln				
	100		105	110
Ala Glu Glu Ala Met Pro Lys Gln Glu Lys Gly Glu Ala Val Ala Glu				
	115		120	125
Gly Ile Asn Lys Pro Ser Ala Glu His Gln Ile Asn Ile Tyr Val				
130		135		140

<210> 10484

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10484

Trp Lys Ile Ser Pro Ser His Gly Ile Trp Arg Gly Glu Leu Ile Arg	
1	5
Asn Asn Tyr Tyr Pro Gln Ala Ala Arg Gln Gly Gly Glu Tyr Leu Ala	
	20
His Thr Leu Ile His Thr Ser Asp Phe Tyr Leu His Pro His Glu Lys	
	35
Lys Ala Gln Val Ala Lys Phe Ile Asn Arg Phe Ala Phe His Arg Arg	
	50
Leu Trp Arg Ala Arg	70
65	

<210> 10485

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10485

Tyr Met Ile Val Pro Ser Gly Ile Ser Leu Leu Thr Ala Ile Asp Asp	
1	5
Ile Leu Ser Gly Ile Leu Thr Leu Leu Ala Val Leu Asn Thr Asp Ala	
	20
Leu Ser Ser Glu His Val Ser Ala Ile Ala Ala Phe Glu Lys Ile Ser	
	35
Arg Gln Lys Asn Val Ala Thr Leu Ile His Pro Glu Ile Phe Ile Ser	
	50
Pro Ser	60
65	

<210> 10486

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10486

Arg Pro Val Met Ser Lys Ile Pro Gly Thr Asp Ile Gln Pro Ala Val	
1	5
Gln Arg Arg Val Glu Val Val Ile Phe Pro Ala Ala Ile Phe Ala Ala	
	20
Ile Thr Ile His Val Ile Pro Gln His Gln Arg Gly Asp Pro Gly Ile	
	35
Pro Glu His Arg Val Tyr Ala Ala Ala Cys Asp Met Leu Gln His Gly	
	50
Leu Gly Asp Thr Asp Ile Lys Ala Leu Ser Ala Pro Val Lys Phe Gln	
	55
	60

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<400> 10489
Thr Leu Lys Lys Gly Gly Leu Cys Glu Arg Lys Asp Arg Asn Lys Lys
1          5          10          15
Val Leu Phe Ile Arg Val Tyr Val Asn Ser Asn Leu His Gly Val Ile
```

		20						25					30				
Met	Glu	Leu	Ser	Leu	Asn	Ile	Gly	Leu	Ser	Glu	Lys	Lys	Ser	Asn	Thr		
		35					40					45					
Ala	Ala	Leu	Phe	Lys	Thr	Lys	Ser	Ala	Lys	Val	Ile	Leu	Phe	Val	Leu		
		50				55					60						
Leu	Thr	Val	Leu	Phe	Cys	Gly	Leu	Ala	Tyr	Ala	Gly	Ser	Asp	Asp	Gly		
65					70					75					80		
Ala	Leu	Gly	Asp	Ile	Trp	Ser	Tyr	Met	Ser	Glu	Ser	Met	Thr	Gly	Ala		
				85					90					95			
Pro	Gly	Lys	Ile	Leu	Ala	Ala	Ala	Met	Leu	Ile	Ser	Ser	Val	Tyr	Phe		
		100						105					110				
Ser	Val	Leu	Lys	Pro	Asn	Pro	Gly	Leu	Ala	Leu	Val	Ser	Leu	Phe	Met		
		115					120					125					
Met	Leu	Val	Met	Ala	Asn	Gly	Glu	Lys	Ile	Ile	Ser	Thr	Phe	Met	Asp		
	130					135					140						
Ala	Gly	Val	Pro	Leu													
145						150											

<210> 10490

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10490

Phe	Val	Lys	Gln	Cys	Gly	Asn	Leu	Asn	Leu	Ser	Asp	Ile	Ser	Ile	Ile		
1				5					10					15			
Lys	Lys	Leu	Arg	Lys	Val	Ala	Thr	Tyr	Asn	Phe	Arg	Ser	Ser	Lys	Glu		
			20					25				30					
Ala	Leu	Ser	Trp	Pro	Leu	Pro	Asn	Lys	Val	Glu	Ser	Tyr	Leu	Val	Cys		
		35					40				45						
Thr	Gly	Tyr	Asn	Leu	Leu	Lys	Asn	Lys	Leu	Phe	Ile	Ser	Ala	Met	Leu		
	50					55					60						
Ser	Ala	Ser	Phe	Thr	Thr	Gly	Leu	Thr	Ser	Arg	Leu	Asn	Val	Gln	Lys		
65				70					75					80			
Ser	Asn	Phe	Ser	Asn	Glu	Leu	Leu	Thr	Ile	His	Leu	Tyr	Ala	Phe	Leu		
				85					90					95			
Thr	Gln	Ala	Tyr	Met	Leu	Ala	His	Ser	Leu	Asn	Ala	Val	Glu	Gln	Asp		
		100						105					110				
Gly	Phe	Val	Arg	Thr	Leu	Phe	Thr										
		115					120										

<210> 10491

<211> 119

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (68)

<400> 10491

Ser	Cys	Met	Arg	Gly	Phe	Ile	Pro	Leu	Ser	Gly	Phe	Leu	Met	Ser	Lys		
1				5					10					15			
Gln	Asn	Asp	Val	Pro	Gln	His	Thr	Tyr	Arg	Phe	Pro	Phe	Arg	Ile	Asn		
			20					25				30					
Met	Pro	Leu	Ile	Leu	Phe	Trp	Asp	Ala	Lys	Lys	Leu	Gly	Leu	Ala			
		35				40					45						
Phe	Ile	Leu	Val	Ala	Phe	Gly	Asn	Ile	Phe	Glu	Cys	Phe	Gly	Phe	Ser		
	50					55					60						
Val	Val	Ala	Xaa	Val	Val	Tyr	Trp	Ile	Ala	Tyr	Asn	Lys	Ala	Ala	Glu		
65					70					75					80		

Ser Gly Ile Arg Gly Leu Leu Lys His Lys Leu Trp Trp Leu Gly Phe
 85 90 95
 Leu Pro Ser Lys Ala Val Phe Ser Ser Arg Tyr Phe Asn Asp Pro Phe
 100 105 110
 Ile Arg Asp Leu Tyr Ser
 115

<210> 10492

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 10492

Val Tyr Leu Leu Asp Val Ser Ala Leu Phe Gly Lys Phe Glu Val His
 1 5 10 15
 Val Ser Cys Ser Lys Gln Glu Glu Asp Met Asn Asn Ser Lys His Thr
 20 25 30
 Val Ile Glu Val Asp Thr Asn Leu Val Glu Ile Glu Lys Gly Phe Asn
 35 40 45
 Pro Arg Glu Ala Val Ile Gly Asp Leu Cys Tyr Glu Gln Glu Pro Val
 50 55 60
 Lys Ser Met Ile Val Ser Ile Lys Gln Ala Phe Lys Glu Gly Arg Gln
 65 70 75 80
 Val Asp Met Ile Lys Val Val Lys Arg Lys Gly Lys Tyr Leu Val Arg
 85 90 95
 Gln Gly His Thr Arg Phe His Gly Leu Lys Leu Ala Ile Ser Glu Gly
 100 105 110
 Ala Asn Ile Pro Lys Leu Ser Val Ile Leu Ile Asp Tyr Lys Asn Glu
 115 120 125
 Ile Glu Glu Tyr Leu Glu Asn Leu Asp Gly Asn Arg Ser Asn Gly Leu
 130 135 140
 Asn Pro Val Gly Gln Ala His Ala Leu Ala His Ala Val Ser Leu Gly
 145 150 155 160
 Tyr Ser Val Glu Glu Leu Gly Lys Val Arg Ile Ser Gly Glu Ile Leu
 165 170 175
 Leu Gly

<210> 10493

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10493

Leu Asn Ser Ser Val Ile Arg Phe Ser Phe Gly Lys Leu Phe Ile Thr
 1 5 10 15
 Tyr Ser Cys Lys Cys Phe Leu Arg Ile Tyr Leu Asn Ala Ile Ser Ile
 20 25 30
 Pro Val Asn Ala Phe Leu Ile His Ser Asn Ala Phe Arg Met His Pro
 35 40 45
 Asn Ala Gly Ser Phe His Lys Val Thr Ile Ile Asn Glu Leu Lys Met
 50 55 60
 Pro
 65

<210> 10494

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10494

His Val Ser Glu Ser Pro Ala Lys Cys Lys Arg Phe Ala Leu Lys Arg
 1 5 10 15
 Met Arg Asn Leu Arg Glu Ile Ala Gly Ala Lys Lys Leu Lys Ile Leu
 20 25 30
 Lys Phe Lys Glu Leu Leu Met Ser Asn Tyr Leu Lys Ile Arg Phe Cys
 35 40 45
 Thr Phe Ser Leu Leu Val Ser Leu Lys Glu Gln Gly Lys Val Cys Ala
 50 55 60
 Thr Ala Arg Met Pro Thr Glu
 65 70

<210> 10495

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 10495

Ile Arg Gly Ser Tyr Met Val Tyr Glu Asn Glu Leu Trp His Ser Phe
 1 5 10 15
 Leu Leu Arg Ser Gln Ile Met Tyr Asn Leu Ser Asn Cys Arg Asn Ile
 20 25 30
 Ile Ser Lys His Gly Ala Leu Arg Tyr Asp Ala Phe Pro Arg Phe Glu
 35 40 45
 Leu Ile Asp Met Tyr Lys Leu His Ser Leu Gln Asp Ile Tyr Asp Ile
 50 55 60
 Leu Ala Thr Arg Asn Gly Tyr Ile Leu Thr Ser Asn Ile Val Ser Leu
 65 70 75 80
 Ser Ser Gly Val Tyr Gly Tyr Phe Asn Ala Ile Glu Asp Ala Cys Arg
 85 90 95
 Lys Asn Phe His Ile Thr Asn Ser Tyr Pro Leu Val Asn Ile Ser Asn
 100 105 110
 Ile Arg Tyr Cys His Lys Cys Ile Val Glu Asp Ile His Ser Lys Gly
 115 120 125
 Ile Gly Tyr Leu Arg His Arg Trp Leu Phe Glu Ser Lys Cys Ala Val
 130 135 140
 His Ser Thr Ser Leu Tyr Glu Val Cys Phe Asp Asn Tyr Leu Asn Ala
 145 150 155 160
 Val Lys Gly Leu Ser Asp Leu Ile Ile Ser Gly Ile Asn Pro His Gly
 165 170 175
 Tyr Cys Ser Leu Val Val Asp Val Ser Asn Pro Phe Lys Asn Pro Val
 180 185 190
 Tyr Ile Leu Pro Cys Ala Arg Asn Lys Ile Leu Lys Trp Ile Ser Asp
 195 200 205
 Asn Lys Asn Met Leu Ile Tyr Phe Leu Phe Asp Leu Phe Lys Cys Lys
 210 215 220
 Ser His Ser Ser Leu Ser Lys Val Ile Glu Val Lys Ile Met His Asp
 225 230 235 240
 Arg Tyr Ile Ser Ala Val Phe Lys Met Leu Ser Glu Val Asn Phe Cys
 245 250 255
 Asn Phe Asn Ser Phe Ile Ser Asp Ile Phe Glu Asp Val Ser Tyr Ala
 260 265 270
 Ser Ile Gly Leu Asp Asp Tyr Ser Val Asn Val His Phe Leu Arg Leu
 275 280 285
 Arg Ala Ala Asp Cys Lys Phe Cys Gln Leu Asn Gly Lys Tyr Phe Cys
 290 295 300
 Ser Leu Tyr Asn Val Lys Leu Leu Arg
 305 310

<210> 10496

<211> 557

<212> PRT

<213> Enterobacter cloacae

<400> 10496

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Met Asn Ala Asp Lys Asn Asp Met Asn Cys Phe Ser Leu Arg Glu Gly
1      5      10      15
Asp Gly Arg Phe Glu Ile Ala Cys Glu Phe Asp Asp Leu Pro Asp Phe
20      25      30
Ile Met Ile Asp Asp Arg Val Gln Thr Thr Leu Ala Ser Glu His Leu
35      40      45
Leu Asn Glu Asp Gly Asn Phe Glu Ile Val Lys Thr Phe Lys Ala Thr
50      55      60
Thr Ser Gly Lys Pro Glu Gln Thr Cys Ile Arg Cys Ile His Pro Asp
65      70      75      80
Glu Glu Pro Leu Arg Asn Leu Leu Gly Met Lys Ile Ser Glu Leu Lys
85      90      95
Ala Val Gly Lys Glu Val Glu Lys Asn Val Ala Asp Lys Arg Thr Ala
100     105     110
Ser Leu Trp Arg Gln Ala Ile Arg Glu Ala Ala Ala Pro Tyr Thr Cys
115     120     125
Ser Glu Ile Met Leu Asp Val Asp Lys Glu Phe Gly Thr Asp Thr Lys
130     135     140
Ser Leu Trp Gly Lys Ile Leu Asp Leu Leu Pro Thr Tyr Ala Ile Phe
145     150     155     160
Lys Ala Asp Arg Glu Ser Ser Asp Gly Asp Ser Glu Ala Lys Asn Pro
165     170     175
Leu Gln Gln Ala Val Lys Asp Ala Gln Ala Ala Leu Gln Asp Lys Ile
180     185     190
Thr Ala Leu Glu Asn Glu Ile Gln Asp Ser Val Leu Asp Val Ala Gln
195     200     205
Arg Thr Leu Asp Lys Leu Arg Glu Met Ala Pro Glu Leu Ala Ser Glu
210     215     220
Leu Thr Pro Arg Phe Lys Glu Lys Pro Lys Trp Thr Phe Asn Phe Thr
225     230     235     240
Leu Asp Gly Glu Asn Gly Ile Pro Ile Asn Lys Arg Gly Ser Gly Ile
245     250     255
Arg Arg Leu Ile Leu Leu Asn Phe Phe Arg Ala Glu Ala Glu Lys Asn
260     265     270
Val Ala Gly Thr Pro Arg Asn Val Ile Tyr Ala Ile Glu Glu Pro Glu
275     280     285
Thr Ser Gln His Pro Asn Tyr Gln Met Met Leu Met Lys Ala Leu Leu
290     295     300
Ala Leu Ala Gly Gln Pro His Arg Gln Ile Ile Val Thr Thr His Val
305     310     315     320
Pro Ala Leu Ala Gly Leu Ile Pro Val Glu Gly Val Arg Tyr Val Thr
325     330     335
Arg Asn Glu Ala Gly Glu Pro Val Val Lys Met Pro Asp Asp Ala Val
340     345     350
Leu Lys Glu Ala Thr Glu Ser Leu Gly Val Leu Pro Glu Thr Gly Met
355     360     365
Glu Arg Ala Gln Gly Ile Val Leu Val Glu Gly Lys Ser Asp Val Thr
370     375     380
Phe Leu Arg His Ala Ala Ser Ser Leu Lys Gln Ser Gly Ala Leu Pro
385     390     395     400
Ala Ser Leu Glu Asp Val Lys Ile Val Pro Val Leu Ile Gly Gly Cys
405     410     415
Gly Ser Val Lys His Trp Val Thr Leu Asn Leu Ala Lys Asp Leu Gly
420     425     430
Leu Pro Trp Cys Val Phe Leu Asp Ser Asp Ile Gly Gly Asp Pro Ala
435     440     445
Gln Val Leu Ser Ile Gln Lys Arg Lys Lys Glu Val Glu Glu Ala Gly
450     455     460

```

Lys Val Phe Phe Ala Thr Arg Lys Arg Glu Ile Glu Asn Tyr Leu Cys
 465 470 475 480
 Pro Asp Leu Ile Glu Ile Thr Gly Val Ala Val Thr Phe Thr Asp
 485 490 495
 Thr Cys Asp Ala Lys Lys Ile Ile Gly Arg Ala Val Gly Met Lys Pro
 500 505 510
 Asp Asn Val Leu Asp Lys Phe Trp Pro Gln Met Thr Ser Glu Arg Ile
 515 520 525
 Ile Ser Arg Ser Thr Tyr His Asp Gly Thr Gln Glu Arg Ser Glu Leu
 530 535 540
 Val Glu Ile Leu Ser Asp Ile Val Ser Met Thr Arg
 545 550 555

<210> 10497

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10497

Gln Ile Ile Asp Arg Pro Ser Glu His Leu Trp Ile Ser Leu Asn Gln
 1 5 10 15
 Ala Gly His Pro Val Lys Phe Glu Arg Asp Ile Ala Phe Phe Gly Pro
 20 25 30
 Gly Phe Glu Lys Leu Glu Asp Phe His Asp Phe Arg Ser Glu Val Lys
 35 40 45
 His Asp Pro Val Arg Tyr Gln Leu Ile Ile Ile Cys Leu Cys Gln Glu
 50 55 60
 Gln His Ile Ala Asp His Phe Gly His Pro Val Ile Leu Phe Lys Thr
 65 70 75 80
 Gly Ile Glu Asp Ile Leu Lys Phe Pro Leu Cys Ser Ile Leu Thr Gln
 85 90 95
 Cys Asp Ile Ser Leu Arg His Gln Ile Gly Asp Gly Arg Ser Asp Leu
 100 105 110
 Met Arg Asp Ile Gly Arg Glu Ile Gly Leu Ala Gly Lys Asp Ile Leu
 115 120 125
 Asn Leu Ser Asn His Met Ile Glu Arg Asp Asn Gln Leu Leu Gln Leu
 130 135 140
 Asn Gly Asn Ala Cys Pro Phe Gln Ser Arg Ile Lys Ile Leu Gly Gly
 145 150 155 160
 Asp Val Leu Asn Gly Ile Val Asp Ile Thr Lys Gly Gln Val Pro Leu
 165 170 175
 Asp Gly Gln Arg Phe Glu
 180

<210> 10498

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10498

Thr Gln Lys Lys Thr Val Pro Gln Phe Ile Phe Val Asn His Ile Thr
 1 5 10 15
 Pro Ser Tyr Leu Ile Ser Ser Ile Phe Leu Arg Ser Ile Ile Val Ile
 20 25 30
 Gly Ser Leu Ser Leu Tyr Phe Lys Ser Gln Pro Cys Pro Pro Ser Lys
 35 40 45
 Ala Ser Arg Leu Val Ser Asp Ile Glu Tyr Cys Pro
 50 55 60

<210> 10499

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10499

```

Phe Pro Ala Val Met Leu Thr His Tyr Gly Asp Arg Glu Trp Leu Arg
1          5          10          15
Pro Val Leu Asp Lys Val Asn Thr Ser Thr Ala Val Pro Gly Ala Glu
20          25          30
Ala Gln Thr Pro Ala Ala Ile Ser Ser Pro Pro Asn Ser Leu Leu His
35          40          45
Leu Asn Asn Leu Phe Leu Pro Thr Cys Ile Thr Val Arg Val Ala Val
50          55          60
Val Tyr Arg His Pro Val Met Gln Ala Met Ala Tyr Lys Glu Ala Asn
65          70          75          80
Pro Leu Met Phe Val Arg Ile Ile Val Pro Met Leu Ala Arg Val Met
85          90          95
Asn Thr Asn Asn Ser Arg Cys Tyr Pro Trp Glu Asp Arg Lys Gln
100          105          110

```

<210> 10500

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10500

```

Val Asn Ile Thr Ala Gly Asn Tyr Arg Cys Leu Leu Leu Ser Thr Ser
1          5          10          15
Gly Ile Ile Ile Asn Ala Thr Phe Ile Leu Pro Glu Cys Asn Phe Ser
20          25          30
Asp Cys Pro Tyr Met Glu Asn Gln Ser Tyr Ile Glu Ile Leu Gln Lys
35          40          45
Tyr Asn Asn Lys Ile Val Trp Lys Lys Asn Asn Val Pro Ala Asn Cys
50          55          60
Arg Gly Asp Asp Tyr Gln Ala Ser Met Arg Pro
65          70          75

```

<210> 10501

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 10501

```

Val Val Ile Leu Arg Gln Phe Cys Pro Ala Ala Thr Ala Phe Phe Ala
1          5          10          15
Ile Arg Gln Ser Ile Met Gln Arg Lys Leu Ser Ile Lys Pro Gln Leu
20          25          30
Leu Ile Lys Arg Ile Glu Leu Phe Ala Gly Asn Ile Asp Lys Asn Lys
35          40          45
Phe Ser Ile Ser Pro Phe Lys Gly Ser Asp Leu Lys Ile Phe Glu Pro
50          55          60
Ser Ile Ile Asn Thr Gly Ser Gly Ser Ala Leu Asn Ile Asn Ile Lys
65          70          75          80
Trp Asp Tyr Pro Tyr Glu Leu Lys Met Arg Gln Leu Asn Glu Cys Tyr
85          90          95
Lys Ser Ile Asn Lys Glu Ala Lys Leu Glu His Glu Ile Asn Asp Lys
100          105          110
Leu Gly Val Arg Cys Leu Glu Ile Asn Thr Gly Glu Ile Val Leu Tyr
115          120          125
Pro Leu Thr Asn Thr Asp Leu Ile Asp Phe Met Ala Pro Ile Asn Val
130          135          140
Glu Lys Lys Glu Tyr Lys Thr Arg Ala Pro Phe Ser Ile Phe Asn Ile

```

145					150					155				160
Met	Ile	Asn	Asp	Ala	Met	Thr	Leu	Leu	His	Ile	Glu	Asn	Lys	Leu
				165					170					175
Lys	Ala	Val	Glu	Gly	Pro	Ser	Leu	Asn	Ile	Ser	Tyr	Thr	Asp	Val
			180					185					190	
Gly	Lys	Lys	Tyr	Ser	Leu	Gln	Tyr	Lys	Ser	Tyr	Phe	Ile	Val	Lys
		195					200					205		
Ile	Thr	Ala	Leu	Leu	Tyr	Thr	Asn	Ser	Ile	Ser	Gly	Ile	Leu	Phe
	210					215					220			
Glu	Gly	Thr	Lys	Met	Pro	Leu	Ala	Asn	Arg	Val	Asn	His	Leu	Tyr
225					230					235				240
Lys	Gln	Lys	Gly	Ile	Phe	Ile	Asn	Phe	Val	Arg	Asn	Lys	Leu	Gln
				245					250					255
Ile	Lys	Leu	Arg	Ser										
			260											

<210> 10502

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10502

Arg	Met	Thr	Thr	Leu	Lys	Ile	Lys	Tyr	Leu	Tyr	Gly	Lys	Ala	Leu	His
1				5					10					15	
Leu	Asn	Gln	Val	Ile	Asp	Gly	Lys	Thr	Gly	Ile	Arg	Leu	Ser	Asp	Leu
			20					25					30		
Ser	His	Tyr	Ser	Arg	Leu	Glu	Asn	Glu	Lys	Met	Arg	Asp	Asp	Glu	Met
		35					40					45			
Ser	Lys	Val	Phe	Ile	Ala	Lys	Arg	Glu	Glu	Ile	Ile	Met	Glu	Val	Asn
	50					55					60				
Gly	Ile	Arg	Ile	Asn	Thr	Ser	Asp	Leu	Thr	Asn	Asp	Pro	Ile	Ile	Arg
65				70					75					80	
Ile	Thr	Pro	Arg	His	Cys	Tyr	Cys	Leu	Cys	Leu	Ser	Ser	Lys	Gly	Asp
				85				90						95	
Asp	Asp	Tyr	Leu	Tyr	Ser	Asn	Phe	Gln	Ala	Asp	Thr	Cys	Ile	Ala	Phe
			100					105					110		
Asp	Val	Asp	Lys	Leu	Glu	Glu	Arg	Leu	Ser	Ile	Ala	Ser	Gln	Lys	Phe
	115						120					125			
Gln	Gly	Ser	Phe	Val	Val	Gly	Asp	Asp	Ile	Ile	Tyr	Tyr	Asn	Gln	Thr
	130					135					140				
Ser	Leu	His	Gly	Leu	Gly	Gln	Thr	Pro	Glu	Lys	Leu	Val	Phe	Tyr	Lys
145				150					155					160	
Pro	Asp	Phe	Phe	Ser	His	Glu	His	Glu	Tyr	Arg	Ile	Ala	Trp	Phe	Tyr
				165				170						175	
Pro	Leu	Asp	Lys	Asp	Gly	Phe	Arg	Ala	Gly	Asp	Lys	Asn	Ile	Pro	Phe
		180					185					190			
Thr	Phe	Lys	Asn	Glu	Ser	Ser	His	Leu	Phe	Phe	Phe	His	Lys	Glu	Arg
	195					200					205				
Ser	Phe	Ile	Thr	Asp	Cys	Ile	Ile	Asn	Val	Phe	Arg	Lys			
	210					215					220				

<210> 10503

<211> 106

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (93)

<400> 10503

```

Arg Val Glu Arg Pro Met Ile Arg Cys Thr Phe His Leu Asn Asn Ser
1      5      10      15
Gln Leu Ser Thr Leu Ser Cys Pro Gly Val Gly Phe Phe Pro Ala Tyr
      20      25      30
Ser Gly Asn Ala Gly Glu Asn Arg Asn Asn Pro Asp Lys Ile Ala Val
      35      40      45
Ala Gly Ile Gly Pro Leu Pro Pro Gly Lys Tyr Tyr Ile Val Met Arg
      50      55      60
Pro Gly Ser Ser Ala Ala His Phe Thr Lys Ser Phe Thr Ser Ser Ile
65      70      75      80
Leu Ser Gly Ser Asn His Phe Lys Ser Phe Gly Ser Xaa Phe Thr Thr
      85      90      95
Arg Pro Arg Thr Thr Ile Ser Pro Pro Ser
      100      105

```

<210> 10504

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10504

```

Glu Ser Thr Ser Leu Ile Gln Asn Tyr Tyr Pro Asp Ile Ala Asp Glu
1      5      10      15
Ile Arg Arg Ile Ala Asp Asn Ile Pro Arg Arg Ser Arg Ala Ala Leu
      20      25      30
Arg Glu Lys Leu Lys Asp Ala Asn Ala Lys Asn Lys Val Leu Gln Asp
      35      40      45
Glu Ile Gln Gln Leu Gln Leu Arg Ile Ser Lys Gln Ala Thr Ile Asn
      50      55      60
Glu Met Leu Asn Tyr Asn Leu Lys Asn Lys Pro Ser Arg Asn Lys
65      70      75      80

```

<210> 10505

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 10505

```

Ser Gln Leu Ala His Phe Leu Ala Lys Thr Gly Cys Pro Arg Glu Ile
1      5      10      15
Phe Phe Pro His Leu Cys His Gln Gly Pro Ile Ile Pro Asn Lys Asn
      20      25      30
Leu Asp Lys Tyr Glu Lys Cys Thr His Ser Tyr Lys Lys Phe Asp Ile
      35      40      45
Pro Asn Leu Val Ala Asp Glu Asn Glu His Asp Met Ser Ser Gly Leu
      50      55      60
Asp Arg Val Lys Thr Ser Ser Glu Asp Glu Met Ser Thr Glu His Val
65      70      75      80
Asp His Lys Thr Ile Ala Arg Phe Ala Glu Asp Lys Val Asn Leu Pro
      85      90      95
Lys Val Lys Ala Asp Glu Phe Arg Glu Gln Ala Lys Arg Leu Gln Asn
      100      105      110
Lys Leu Glu Gly Tyr Leu Ser Asp His Pro Asp Phe Ser Leu Lys Arg
      115      120      125
Met Ile Pro Ser Gly Ser Leu Ala Lys Gly Thr Ala Leu Arg Ser Leu
      130      135      140
Asn Asp Ile Asp Val Ala Val Tyr Ile Ser Gly Ser Asp Ala Pro Gln
      145      150      155      160
Asp Leu Arg Glu Leu Leu Asp Tyr Leu Ala Asp Arg Leu Arg Lys Ala
      165      170      175
Phe Pro Asn Phe Ser Pro Asp Gln Val Lys Pro Gln Thr Tyr Ser Val

```


<212> PRT

<213> Enterobacter cloacae

<400> 10507

```

Ile Asn Glu Val Leu Ser Tyr Ser Ser Pro Ser Gly Ser Ser Asn Gly
1      5      10      15
Tyr Ser Ser Gly Gly Gly Gly Ser Ser Ser Ser Thr Arg Pro Arg Trp
20      25      30
Ser Arg Ala Gly Ser Ser Val Ile Tyr Thr Pro Ala Glu Val Arg Thr
35      40      45
His Thr Pro Ala Arg Glu Asn Val Glu Arg Arg Ala Ser Val Pro Asp
50      55      60
Leu Arg Asp Val Phe Leu Cys His Ala Trp Asp Arg Lys Asp Ala
65      70      75      80
Ala Lys Glu Leu His Asp Gln Leu Glu Met Asn Gly Val Ser Val Trp
85      90      95
Phe Ser Glu Lys Asp Val Leu Leu Gly Ala Thr Leu Leu Arg Glu Ile
100     105     110
Asp Glu Gly Leu Ala Lys Ser Arg Val Gly Ile Val Leu Val Thr Pro
115     120     125
Ala Leu Leu Lys Arg Leu Ala Gly Glu Gly Ile Ala Asp Lys Glu Leu
130     135     140
Ser Ala Leu Leu Ala Arg Asp Leu Leu Val Pro Ile Val His Asn Thr
145     150     155     160
Thr Tyr Glu Asp Leu Arg Glu Val Ser Pro Leu Leu Gly Ser Arg Ser
165     170     175
Gly Leu Ser Thr Ala Glu Asp Ser Met Ala Asn Ile Ala Ser Lys Leu
180     185     190
Ala Glu*Leu Val Thr Ile
195

```

<210> 10508

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10508

```

Lys Phe Ile Lys Ile Phe Asp Ile Glu Ile Leu Thr Gln Ser Asn Phe
1      5      10      15
Ser Gly Phe Leu Glu Lys His Phe Arg Gln Ser Cys Val Trp Leu His
20      25      30
Leu Phe Leu Ser Asn Ser Asn Arg Asp Leu Ala Tyr Asn Leu Pro Ala
35      40      45
Ile Leu Lys Pro Gly Asn Tyr Val Lys His Arg Asp Leu Thr Gln Glu
50      55      60
Ile Leu Trp Asn Thr Leu Phe
65      70

```

<210> 10509

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10509

```

Glu Ile Ala Ala Val Ser Gly Phe Glu Arg Pro Ser Ser Glu Met
1      5      10      15
Tyr Ser Thr Pro Pro Val Leu Asn Ile Pro Ser Leu Val Thr Ile Ser
20      25      30
Leu Asp Asp Thr Glu Phe Gly Leu Gly Asp Lys Ser Ser Phe Lys Gly
35      40      45
Phe Ser Met Ser Ile Ser Lys Thr Gly Ile Ile Pro Ala Val Ile Leu

```

50 55 60
Ala Ile Cys Ser Gly Ser Asp Ile Glu
65 70

<210> 10510
<211> 87
<212> PRT
<213> Enterobacter cloacae

<400> 10510
Ile Ser Lys Glu Val Ala Leu Met Asp Glu Lys Ile Val Leu Thr Arg
1 5 10 15
Gln Gln Ile Leu Ser Ser Ala Leu Lys Val Ser Lys Cys Arg Ser Leu
20 25 30
Val Lys Arg Arg Phe Gln Ser Leu Gly Leu Lys Tyr Ala Asp Ser Gln
35 40 45
Glu Ile Pro Asp Arg Leu Thr Met Ile Asp Lys Asn Ala Phe His His
50 55 60
Phe Gly Lys Asn Leu Ser Asp Pro Thr Ile Ser Ile Pro Tyr Ser Ser
65 70 75 80
Met Gly Lys Tyr Pro Cys Pro
85

<210> 10511
<211> 217
<212> PRT
<213> Enterobacter cloacae

<400> 10511
Lys Gly Lys Arg Tyr Leu Cys Ser Ala Val Glu Gln Pro Ser Leu Phe
1 5 10 15
Asn Asn Glu Gln Phe Met Ile Thr Phe Phe Arg Arg Ala Gly Leu Gly
20 25 30
Thr Lys Leu Ser Leu Leu Thr Gly Ala Ser Val Ala Thr Leu Phe Leu
35 40 45
Leu Phe Thr Phe Leu Leu Ser His Asn Ala Ser Gln Gln Leu Glu Asp
50 55 60
Leu Ala Val Glu Asp Leu His Asn Gln Ser Thr Gly Met Val Asp Met
65 70 75 80
Val Glu Met Phe Asn Thr Ser Leu Ser Glu Glu Val Glu Ser Tyr Thr
85 90 95
Arg Leu Phe Thr Thr Phe Leu Pro Gln Pro Leu Asn Ser Asp Ser Ser
100 105 110
Gln Ser Arg Thr Ile Asn Gly Leu Thr Val Pro Leu Leu Lys Gly Gly
115 120 125
Glu Thr Glu Leu His Glu Asn Asn Thr Leu Ser Asp Asp Phe Leu Ser
130 135 140
Arg Thr Gly Ala Ile Ser Thr Leu Phe Val Arg Ser Gly Asn Asp Phe
145 150 155 160
Ile Arg Val Ala Thr Ser Leu Arg Lys Glu Asn Gly Asp Arg Ala Ile
165 170 175
Gly Thr Val Leu Asp Thr Thr Ser Pro Ala Phe Ala Ala Val Thr Lys
180 185 190
Gly Glu Val Tyr Arg Gly Leu Ala Pro Leu Phe Gly Asn Arg Tyr Gln
195 200 205
Gln Pro Gln Glu Arg Val Cys Pro Lys
210 215

<210> 10512
<211> 81
<212> PRT

<213> Enterobacter cloacae

<400> 10512

Thr	Glu	Ala	Gln	Ser	Pro	Asp	His	Ala	Ser	Gly	Asp	Val	Ile	Phe	Ile
1				5					10					15	
Leu	Val	Ile	Ser	Arg	Tyr	Phe	Lys	Tyr	His	Leu	Phe	Lys	Ser	Ile	Leu
			20				25						30		
Ile	Gly	Ile	Ala	His	Asp	Gly	Ser	Ala	Thr	Ala	Ser	Asn	Phe	Thr	Gly
		35					40					45			
Thr	Pro	Gly	Ala	Asn	Arg	Val	Tyr	His	Arg	Arg	Glu	Ser	Asp	Arg	Thr
	50					55					60				
Phe	Arg	Asp	Leu	Pro	Arg	Tyr	Arg	Ala	Thr	Gly	Tyr	Gln	Gln	Ala	Gly
65					70					75					80

<210> 10513

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10513

Gly	Ser	Lys	Arg	Ser	Met	Pro	Met	Lys	Thr	Gln	Arg	Val	Ile	Lys	Val
1				5				10						15	
Ala	Thr	Phe	Leu	Ala	Phe	Cys	Leu	Pro	Gly	Leu	Thr	Leu	Ala	Glu	Asp
			20				25						30		
Cys	Gln	Ile	Thr	Leu	Ser	Gln	Pro	Ile	Val	Asp	Tyr	Lys	Gln	Leu	Lys
		35					40					45			
Arg	Asp	Asp	Ile	Val	Thr	Ser	Gln	Gln	Ser	Trp	His	Lys	Leu	Pro	Glu
	50					55					60				
Arg	Glu	Val	Thr	Val	Asn	Val	Phe	Cys	Pro	Asp	Lys	Gln	Lys	Leu	Ala
65					70					75					80
Val	Leu	Leu	Gln	Gly	Asn	Ala	Gly	Glu	Lys	Gly	Arg	Phe	Arg	Phe	Gly
				85					90					95	
Gln	Asn	Gly	Gly	Val	Ala	Val	Lys	Ile	Asp	Asp	Met	Asn	Val	Asp	Gly
		100					105						110		
Lys	Ser	Tyr	Thr	Val	Gly	Lys	Thr	Val	Asp	Gln	Leu	Asn	Phe	Thr	Pro
		115					120					125			
Glu	Ser	Gly	Ser	Pro	Ser	Pro	Phe	Tyr	Leu	Arg	Asn	Asn	Glu	Ala	Val
		130				135					140				
Val	Ala	Val	Glu	Asn	Asn	Gln	Ala	Val	Thr	Gly	Gln	Gln	Met	Thr	Phe
145					150					155					160
Thr	Ala	Thr	Ile	Phe	Pro	Val	Leu	Asn	Glu	Ser	Ala	Phe	Ser	Asn	Asn
				165					170					175	
Ala	Asp	Gln	Thr	Leu	Glu	Ser	Asp	Phe	Ser	Trp	Lys	Ile	Leu	Gln	
		180					185					190			
Asn	Asn	Pro													
		195													

<210> 10514

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10514

Ile	Ile	Lys	Ser	Gly	Ile	Thr	Gln	Gly	Tyr	Pro	Leu	Lys	Leu	Phe	Ile
1				5				10						15	
Ala	Phe	Ile	Ile	Val	Thr	Ile	Leu	Leu	Glu	Ile	Lys	Lys	Asn	Glu	Lys
			20				25						30		
Cys	Ser	Leu	Ile	Phe	Leu	Phe	Phe	Asp	Gln	Phe	Lys	Lys	Tyr	Ile	Ile
		35					40					45			

Phe Ser Lys Lys Lys Arg Pro Gly Ile Asn Leu Thr Val Lys Ile Lys
 50 55 60
 Ile Glu Leu Ala Leu Phe Tyr Asn Ala
 65 70

<210> 10515

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 10515

Arg Leu Thr Gly Gly Ile Glu Gly Ile Glu Asn Phe Asn Gly Met Arg
 1 5 10 15
 Gln Glu Leu Phe Ala His Glu Arg Lys Leu Ser Pro Gln Thr Ala Ala
 20 25 30
 Ile Glu Gln Ala Gly Ser Gly Lys Leu Phe Gln Phe Val Gln Arg Phe
 35 40 45
 Gly Glu Cys Arg Leu Thr Glu Val Lys Gly Phe Ser Arg Ser Pro Gln
 50 55 60
 Arg Ser Leu Leu Ser Asp Gly His Lys Ser Met Gln Met Ala Gln Ala
 65 70 75 80
 Tyr Ala Leu Thr Glu Gln Thr Ile Phe Phe His Arg Arg Cys
 85 90 95

<210> 10516

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10516

Arg Gln Asn Ala Ser Leu Val Glu Glu Ala Ser Ala Ala Ala Ala Ser
 1 5 10 15
 Leu Glu Glu Gln Gly Ala Arg Leu Thr Glu Ala Val Gly Ala Phe Arg
 20 25 30
 Leu Asn Gly Ala Arg Ala Gly Arg Ala Pro Ala Ala Ala Asn Ala Ala
 35 40 45
 Lys Pro Ser Pro Leu Thr Pro Ala Ala Val Val Ser Gly Asp Asn Trp
 50 55 60
 Glu Thr Phe
 65

<210> 10517

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10517

Trp Ala Ala Phe Asp Ala Val Tyr Asp Leu Ile Gly Gly Glu Ile Lys
 1 5 10 15
 Lys Phe Phe Ile Leu Pro Pro Leu Met Asp Ala Val Val Thr Pro Ser
 20 25 30
 Cys Lys Gln Pro Gln Cys Val Asp Leu Lys Lys Ile Lys Ser Gly Gln
 35 40 45
 Leu Lys Lys His Val Leu Pro Leu Leu Gln Val His Asn His Met Leu
 50 55 60
 Thr Glu Phe Leu Val Glu Thr Phe Arg Trp Val Lys Leu Leu Val Ser
 65 70 75 80
 Thr Trp Val Leu Pro Thr Leu Val
 85

<210> 10518

<211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10518
 Ser Ala Ser Lys Glu Glu Glu Lys Gln Ser Lys Lys Lys Glu Gly Ser
 1 5 10 15
 Ser Asp Glu Lys Glu Lys Lys Ala Glu Arg Glu Lys Glu Lys Glu Lys
 20 25 30
 Asp Thr Gln Lys Glu Lys Ser Glu Gly Glu Glu Ala Ala Asp Pro Asp
 35 40 45
 Asn Pro Glu Lys Glu Glu Arg Glu Glu Glu Thr Ala Lys Asp Thr Glu
 50 55 60
 Ser Gln Val
 65

<210> 10519
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10519
 Val Asn Gln His His Glu Leu Gln Lys Ser Asp Pro Gln Thr Lys Asp
 1 5 10 15
 Lys Lys Glu Arg Glu Glu Ala Val Pro Asn Leu Tyr Lys Glu Thr Ile
 20 25 30
 Lys Ala Lys Gln Pro Gly Lys Glu Glu Lys Ala Asn Arg Glu Asp Pro
 35 40 45
 Lys Ile Gln Gln Thr Ile Arg Glu Gly Ser Leu Glu Gly Lys Arg Lys
 50 55 60
 Glu Arg Asp Lys Asp Asp Gln Arg Lys Ile Gln Ile Gly Asp Asn Cys
 65 70 75 80
 Val Phe Ser His Lys Ala Val Trp Gln Gly Tyr Leu Cys
 85 90

<210> 10520
 <211> 209
 <212> PRT
 <213> Enterobacter cloacae

<400> 10520
 Leu Ser Val Val Ser Asn Arg Gly Gly Arg Ser Gly Gly Leu Lys Gly
 1 5 10 15
 Phe Gly Ile Met Ser Leu Ser Ser Leu Tyr Ser Ser Ser Asp Ala Glu
 20 25 30
 Tyr Ile Gln Val Asn Gln Tyr Leu Val Phe Val Pro Asn Pro Lys Lys
 35 40 45
 Leu Pro Tyr Asn Asp Glu Ser Leu Val Arg Glu Gly Ala Lys Tyr Val
 50 55 60
 Phe Glu His Thr Lys Ala Thr Gln Ala Ser Phe Gly Tyr Asn Pro Glu
 65 70 75 80
 Lys Gln Lys Ala Ala Leu Ala Thr Cys Lys Ile Asp Met Ala Val Val
 85 90 95
 Asn Lys Trp Ser Thr Cys Asp Leu Pro Ser Lys Pro Asp Ala Asp Val
 100 105 110
 Phe Pro Thr Asp Ser Met Tyr Ser Phe Gln Ala Ile Arg Pro Ala Thr
 115 120 125
 Gly Thr Glu Ile Pro Glu Leu Asn Leu Pro Ala Gly Asp Tyr Ala Val
 130 135 140
 Ile Arg Tyr Val Phe Ile Pro Phe Lys Gly Asn Glu Thr Ser Ala Asp
 145 150 155 160

Phe	Ser	Gly	Ile	Ile	Phe	Arg	Ser	Asp	Ser	Pro	Asn	Thr	Thr	Thr	Pro
				165					170					175	
Gly	Gly	Val	Ala	Ala	Ser	Ile	Asn	Gly	Lys	Asp	Tyr	Tyr	Leu	Phe	Thr
			180					185					190		
Gly	Glu	Tyr	Gly	Lys	Lys	Gly	Phe	Pro	Glu	Lys	Thr	Leu	Lys	Ala	Lys
		195					200					205			

<210> 10521

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 10521

Phe	Gln	Leu	Ala	Asn	Thr	Val	Asp	Pro	Asp	Gly	Asp	Ile	Ser	Pro	Ser
1				5					10					15	
Glu	Gly	Ile	Ser	Arg	Tyr	Leu	Thr	Glu	Asp	Arg	Pro	Met	His	Ala	Asp
			20					25					30		
Val	Cys	Thr	Leu	Lys	Thr	Pro	Leu	Asp	Thr	Leu	Ser	Trp	Leu	Cys	Leu
			35				40					45			
Leu	Glu	Ser	Glu	Leu	Leu	Ser	Ile	Arg	Ala	Phe	Gln	Arg	Leu	Asp	Leu
	50					55					60				
His	Thr	Glu	Arg	Asp	Glu	Pro	Asn	Glu	Leu	Thr	Tyr	Leu	Glu	Asp	Ala
65					70					75					80
Ile	Ile	Asn	Ala	Gly	Thr	Ala	Tyr	Gly	Trp	Phe	Val	Cys	Phe	Leu	Arg
				85					90					95	
Asp	Gly	Asp	Ile	Pro	Pro	Leu	Pro	Ala	Thr	Ala	Arg	Glu	Ile	Leu	Cys
			100					105					110		
Thr	Leu	Asp	Ser	Leu	Gly	Lys	Glu	Ile	Asn	Arg	Pro	Phe	Trp	Glu	Lys
		115					120					125			
Ala	Val	Ala	Arg	Gly	Gln	Asp	Glu	Ala	Cys	Gly	Asp	Lys	Ala	Ile	Ala
		130				135					140				
Ala	Leu	Glu	Met	Met											
145						150									

<210> 10522

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 10522

Ile	Pro	Leu	Phe	Phe	Phe	Ala	Glu	Asp	Leu	Ser	Met	Lys	Asp	Leu	Ser
1				5					10					15	
Ser	Ser	Pro	Ala	Ser	Met	Ser	Val	Val	Tyr	Thr	Ile	Glu	His	Val	Ser
			20					25					30		
Thr	Val	Pro	Leu	Arg	His	Trp	His	Ala	Phe	Val	Leu	Ala	Val	Thr	Glu
		35					40					45			
Thr	Phe	Trp	Gln	Leu	Pro	Val	Arg	Leu	Arg	Pro	Gly	Asn	Met	Tyr	Leu
	50					55					60				
Pro	Ser	Leu	Asn	Arg	Ala	Ala	Asp	Leu	Phe	Pro	Val	Ala	Asp	Val	Met
65					70					75					80
Ala	Phe	Cys	Gly	Asp	Ser	Gly	Gly	Ser	Phe	Trp	Pro	Val	Asn	Met	Thr
				85					90					95	
Ile	Glu	Arg	Glu	Arg	Ser	Asn	Asn	Thr	Leu	Ser	Ile	Gln	Glu	Leu	Asp
			100					105					110		
Phe	Gln	His	Gln	Pro	Cys	Asp	Phe	Phe	Ala	Arg	Val	Val	Met	Val	Leu
		115					120					125			
Leu	His	Asn	Leu	Cys	Pro	Gly	Ser	Phe	Arg	Ile	His	Ser	Ser	Asp	Glu
		130				135					140				
Gly	Arg	Ser	Trp	Ala	Ile	Pro	Leu	Arg	Trp	Ile	Glu	Arg	His	Ile	Gly

145					150				155				160		
Leu	Pro	Glu	Gln	Ser	Ser	Leu	Thr	Thr	Pro	Gln	Pro	Val	Leu	Gln	Thr
				165					170					175	
Pro	Val	Ser	Glu	Gly	Ala	Phe	Asp	Ser	Leu	Leu	Leu	Gln	Leu	Leu	Ser
			180					185					190		
Gly	Gly	Glu	Arg	Val	Leu	Ser	Ser	Glu	Asp	Trp	Asn	Ala	Phe	Val	Leu
		195					200					205			
Ala	Glu	Phe	His	Leu	Tyr	Glu	Leu	Lys	Arg	Val	Thr	Glu	Arg	Thr	Asp
	210					215					220				
Ala	Pro														
225															

<210> 10523

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 10523

Leu	Ser	Pro	Ser	Arg	Glu	Asp	Thr	Ala	Pro	His	Gly	Ala	Val	Ser	Ser
1			5						10					15	
Phe	Phe	Tyr	Glu	Arg	Gly	Val	Phe	Thr	Met	Ser	Glu	Trp	Cys	His	Asn
			20					25					30		
Arg	Leu	Glu	Ile	Thr	Gly	Lys	Pro	Val	Cys	Ile	Asp	Val	Met	Leu	Gln
		35					40					45			
Trp	Ile	Asn	Gly	Thr	Asp	Ala	Pro	Arg	His	Arg	His	Ala	Val	Gln	Gln
	50					55					60				
Ser	Ile	Gln	Leu	Phe	Leu	Ala	Gly	Ala	Ala	Gly	Ile	Leu	Lys	Pro	Val
	65				70					75				80	
Arg	Thr	Thr	Ser	Tyr	Pro	Pro	Phe	Gln	Gly	Leu	Val	Arg	Ala	Gly	Thr
				85				90						95	
Gly	Leu	Ser	Thr	Ala	Ala	Asn	Gln	Ala	Phe	Glu	Asn	Trp	Leu	Ala	Leu
			100					105					110		
Leu	Leu	Thr	Asp	Ala	Val	Leu	Asp	Ala	Glu	Thr	Ile	Arg	Val	Ile	Asp
		115					120					125			
Arg	Leu	Tyr	His	Gln	Ser	Gly	Leu	Gly	Ala	Leu	Lys	Trp	Glu	Asn	Ile
	130					135					140				
Pro	Val	Ser	Ser	Arg	Asp	Val	Met	Ala	Glu	Leu	Ile	Ile	Arg	Gln	Tyr
	145				150					155				160	
Thr	Asp	Trp	Phe	Gly	Leu	Val	Ser	Ala	Gly	Asp	Glu	Ser	Asp	Ala	Ala
				165					170					175	
Ala	Ala	Trp	Glu	Arg	Leu	Ser	Gln	Tyr	Pro	Glu	Arg	Ser	Gln	Pro	Cys
		180						185					190		
Asp	Met	Leu	Ala	Val	Ile	Pro	Ser	Arg	Leu	Ala	Ala	Glu	Leu	Asn	Gly
		195					200					205			
Ala	Gly	Gly	Leu	Met	Ser	Gly	Val	Ser	Thr	Thr	Thr	Ser	Leu	Tyr	Cys
	210					215					220				
Arg	Gln	Tyr	Gly	Met	Glu	Trp	Pro	Ala	Gly	His	Asn	Val	Ser	Trp	Gln
	225				230					235					240
Arg	His	Thr	Pro	Asn	Ser	Leu	Thr	Leu	Gln	Met	Asp	Thr	Pro	Trp	Leu
				245					250					255	
Pro	Pro	Ser	Gly	Glu	Val	Val	Gly	Glu	Ile	Ser	Ala	Val	Phe	Asp	Cys
			260					265					270		
Glu	Val	Arg	His	Ser	Tyr	Ser	Glu	Pro	Val	Ser	Gly	Leu	Ser	Gly	Tyr
		275					280					285			
Asp	Cys	Tyr	Asp	Gly	Gly	Glu	His	Val	Asp	Gly	His	Lys	Gly	Ala	Ser
	290					295					300				
Gly	Ala	Pro	Gln	Pro	Gly	Gln	Val	Leu	Tyr	Leu	Val	Ser	Asp	Glu	Pro
	305				310					315					320
Asp	Ser	Pro	Ala	Gln	Asp	Ala	Thr	Ser	Tyr	Arg	Glu	Val	Arg	Gly	
				325					330					335	

<210> 10524
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10524
 Trp Leu Gln Lys Gln His Ile Ser Leu Leu Ile Phe Arg Ala Asn Gly
 1 5 10 15
 Ala Tyr Val Asn Cys Gly Ile Lys Trp Val Thr His Ser Met Leu Arg
 20 25 30
 Ala Val Asn Asn Met Met Leu Asp Met Pro Ala Ala Ile Ala Arg Lys
 35 40 45
 Tyr Tyr Gln Asp Arg Leu Met Arg Gln Ile Lys Arg Lys Lys Glu Lys
 50 55 60
 Asp Arg Glu Arg Leu Ala His Lys Glu Lys Ile
 65 70 75

<210> 10525
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10525
 Phe Lys Ile Leu Ser Arg Arg Asn Tyr Leu Gln Ser Met Ile Pro Arg
 1 5 10 15
 Arg Thr Leu Lys Ala His Phe Leu Pro Trp Gly Ser Ala Ile Asp Asp
 20 25 30
 Thr Pro Ser Pro Ala Arg Tyr Pro Leu Ser Arg Ala Ala Arg Asn Gly
 35 40 45
 Met Ile Lys Tyr Cys Ala Asn Leu Ile Ser Pro Gly Val Tyr Pro Asp
 50 55 60
 Phe Cys
 65

<210> 10526
 <211> 397
 <212> PRT
 <213> Enterobacter cloacae

<400> 10526
 His Ala Phe Val His Val Gln Gln Leu Lys Arg Ser Arg Arg Met Ser
 1 5 10 15
 Arg Arg Gly Glu Arg Phe Ser Arg Met His Leu Pro Leu Pro Gln Leu
 20 25 30
 Asn His Ile Arg Ala Cys Gly Ala Cys Gln Gln Ser Gly Val Thr Ala
 35 40 45
 Leu Cys Ala Leu Pro Gln Asn Arg Asp Arg Leu Phe Pro Asn Asn Val
 50 55 60
 Tyr Leu Arg Leu Ala Gly Asp Val Asn Asp Ile Cys His Arg Asp Ala
 65 70 75 80
 Lys Arg Gly Gly Gln Phe Thr Gln Asn Gly Asn Ala Gly Val Gly Ser
 85 90 95
 Pro Phe Phe Asp Leu Tyr Gln His Ala Phe Ala Asp Ala Gly Ala Ala
 100 105 110
 Arg Lys Leu Val Gln Arg Gln Phe Phe Leu Phe Pro Pro Ala Ala Asp
 115 120 125
 Thr Val Arg Asp Gly Gln Ala Tyr Leu Gly Asn Ile Gly Thr Arg Ile
 130 135 140
 Gly His Tyr Ile Asp Phe Ile Ser His Trp Ser Leu Pro Trp Tyr Lys
 145 150 155 160
 Thr Val Asn Thr Gly Leu Phe Met Ser Leu Val Thr Pro Ser Ile Asp

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<210> 10527
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<210> 10528
<211> 133
<212> PRT
<213> Enterobacter cloacae
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<400> 10528																
Gly	Ala	Leu	Ile	Phe	Ile	Gly	Gln	Ile	Met	Pro	His	Thr	Ser	Ser	Trp	
1				5					10					15		
Trp	Gly	Leu	Met	Leu	Glu	Leu	Tyr	Arg	Ser	His	Lys	Thr	Ser	Phe	Asp	
			20					25					30			
Ile	Phe	Leu	Leu	Ile	Val	Leu	Gly	Val	Ile	Val	Arg	Val	Phe	Tyr	Trp	
		35					40					45				
Gly	Gly	Lys	Leu	Arg	Glu	Cys	Cys	Gly	Asp	Ile	Leu	Ile	Gly	Thr	Val	
	50					55					60					

Ile Met Thr Phe Ala Ala Ala His Leu Pro Asn Val Met Ile Ala Ile
 65 70 75 80
 Pro Gln Ile Gly Ser Val Lys Phe Ser His Asn Glu Ile Ala Phe Val
 85 90 95
 Ile Gly Met Leu Gly Tyr Lys Gly Ile Lys Ala Val Ile Phe Leu Val
 100 105 110
 Leu Lys Asn Arg Phe Gly Ile Asp Leu Pro Ala Arg Ile Ala Gln Arg
 115 120 125
 Lys Asp Asn Val
 130

<210> 10529

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 10529

Pro Ala His Ala Gly Phe Phe Met Glu Gln Thr Met Thr Asp Arg Cys
 1 5 10 15
 Lys Trp Val Ala Thr Ala Arg Lys Tyr Ile Gly Glu Ala Glu Val His
 20 25 30
 Gly Pro Lys His Asn Pro Leu Ile Leu Gln Met Trp Arg Asp Ile Lys
 35 40 45
 Arg Gly Gly Ile Lys Asp Asp Glu Thr Pro Trp Cys Ala Ala Phe Val
 50 55 60
 Gly Ser Val Leu Glu Gln Asn Gly Ile Gln Ser Thr Arg Phe Glu Ser
 65 70 75 80
 Ala Arg Ser Tyr Leu Asp Trp Gly Ile Glu Leu Gln Glu Pro Thr Tyr
 85 90 95
 Gly Cys Val Ala Val Leu Thr Arg Asp Gly Gly Gly His Val Gly Phe
 100 105 110
 Val Val Gly Gln Asn Lys Ala Gly Asp Leu Met Ile Leu Gly Gly Asn
 115 120 125
 Gln Ser Asp Ala Val Asn Ile Lys Ala Phe Ser Arg Gln Arg Val Thr
 130 135 140
 Ser Tyr Arg Trp Pro Arg Gly Gln Ser Ser Val Pro Gln Ser Leu Pro
 145 150 155 160
 Val Met Ser Ala Glu His Ser Thr Ser Glu Ala
 165 170

<210> 10530

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10530

Ser Gly Arg Gly Arg Val Ala His Arg Cys Lys Ser Arg Leu Arg Ala
 1 5 10 15
 Met Ser Cys Tyr Asp Asp Asp Leu Asn Ala Gly Asp Glu Gln Met Leu
 20 25 30
 Glu Ala Phe Gly Arg Pro Val Arg Leu Pro Asn Arg Ala Asp Pro Ile
 35 40 45
 Ile Ala Ile Phe Asn Glu Pro Tyr Ala Arg Thr Asp Leu Pro Ser Ser
 50 55 60
 Gly Gly Gly Phe Ile Thr Gly Thr Val Thr Ser Ile Thr Val Lys Ser
 65 70 75 80
 Gly Ser Val Asp Gly Ile Ala Arg Arg Asp Val Ile Gln Gly Thr Lys
 85 90 95
 Lys Ala Arg Asn Trp Asp Glu Lys Arg Lys Pro Trp Phe Trp Gly Gln
 100 105 110
 Leu Glu Leu Asn Tyr Phe Leu Glu Ser Ser Pro Cys Pro Asp Gly Ser

115

120

125

<210> 10531

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 10531

Thr	Ala	Gly	Asn	Asn	Phe	Leu	Phe	His	Leu	Gly	Tyr	Thr	Gln	Met	Gln
1			5						10					15	
Val	Lys	Ser	Leu	Gly	Phe	Ser	Ile	Thr	Asn	Asp	Asn	Glu	Asn	Ile	Lys
		20						25					30		
Thr	Ile	Asp	Val	Met	Asn	Glu	Phe	Ile	Lys	Ser	Ser	Ser	Arg	Gln	Tyr
		35					40					45			
Asn	Arg	Ala	Asp	Tyr	Thr	Arg	Arg	Phe	Leu	Met	Ser	Asp	Val	Asn	Asp
	50					55					60				
Phe	Tyr	Tyr	Gly	Leu	Val	Val	Thr	Phe	Lys	Asn	Gln	Lys	Lys	Asn	Cys
65				70					75					80	
Met	Ser	Gln	Phe	Ile	Asp	Gly	Lys	Phe	Lys	Leu	Lys	Val	Glu	Glu	Leu
			85					90						95	
Gln	Gly	Asp	Glu	Lys	Leu	Val	Thr	Phe	Asn	Leu	Phe	Leu	Leu	Asn	Lys
		100						105					110		
Thr	Asn	Leu	Arg	Gly	Leu	Tyr	Met	Ser	His	His	Gly	Ser	Cys	Ser	Leu
		115					120					125			
Asn	Thr	Leu	Phe	Ser	His	Phe	Gln	Thr	Val	Ser	Asn	Glu	Phe	Ile	Arg
	130					135					140				
Lys	Gln	Asn	Ala	Ala	Asp	Ile	Glu	Lys	Leu	Gly	Asp	Asn	Pro	Lys	Gln
145				150					155					160	
Lys	Glu	Val	Thr	Ala	Val	Asn	Lys	Lys	Tyr	Lys	Lys	Arg	Phe	Ser	Phe
			165					170						175	
Ser	Ile	Met	Thr	Lys	Glu	Asp	Ile	Lys	Ser	Ile	Leu	Gly	Gln	Phe	
		180					185					190			
Lys	Glu	Ile	Lys	Lys	Ala	Ser	Phe	Lys	Phe	Asp	Tyr	Ile	Asp	Phe	Lys
	195					200					205				
Gly	Gly	Ala	Leu	Thr	Pro	Leu	Glu	Ala	Phe	Ala	Asn	Ser	Thr	Thr	Ile
	210					215					220				
Asp	Met	Ser	Ile	Asn	Pro	Asp	Asp	Lys	Tyr	Lys	Val	Gly	Ala	Leu	Ser
225				230					235					240	
Gln	Thr	Met	Ser	Asp	Thr	Phe	Glu	Ala	Met	Lys	Gly	Gly	Ile	Ser	Lys
			245						250					255	
Ala	Arg	Val	Thr	Ala	Val	Asp	His	Gly	Gly	Ile	Glu	Lys	Ile	Ile	Asp
		260						265					270		
Phe	Met	Asp	Cys	Pro	Ala	Phe	Phe	Glu	Ser	Tyr	Asp	Phe	Asp	Val	Ile
	275					280						285			
Ala	Glu	Lys	Ile	Asn	Gly	Leu	Thr	Asn	Asp	Asn	Tyr	Thr	Ser	Asn	Pro
	290				295						300				
Val	Phe	Asp	Met	Ile	Lys	Asp	Glu	Ile	Leu	Asn	Gly	Thr	Asn	Lys	Asn
305					310					315					320
Ala	Phe	Val													

<210> 10532

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10532

Met	Asn	Ala	Asp	Ile	Tyr	Ile	Tyr	Leu	Leu	Arg	Arg	Ser	Lys	Met	Ala
1				5					10					15	
Asp	Ala	Ala	Phe	Thr	Leu	Pro	Lys	Gly	Val	Tyr	Gln	Lys	His	Lys	Glu
		20						25					30		

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<210> 10533
<211> 79
<212> PRT
<213> Enterobacter cloacae
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<210> 10534
<211> 95
<212> PRT
<213> Enterobacter cloacae
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<210> 10535
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

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<400> 10535
Arg His Leu Arg Gly Glu Asp Arg Asp Thr Leu Arg Arg Met Ala Ala
1      5      10      15
Glu Leu Asn Val Pro Leu Asn Tyr Phe Phe Cys Asp Asp Gln Thr Thr
20      25      30
Ala Glu Leu Ala Leu Leu Ile Ser Arg Met Thr Glu Glu Glu Arg Ser
35      40      45
Lys Leu Ile Glu Ala Leu Lys Thr Ser Ser Gly Asp Asn Thr Ala Asp
50      55      60

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Lys Lys
65

<210> 10536

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10536

Arg	Leu	Asp	Pro	Met	Arg	Ser	Phe	Ala	Ser	Pro	Leu	Asn	Thr	Asn	Ile
1				5					10					15	
Ala	Tyr	Ala	Lys	Lys	Ile	Ile	Trp	Gln	Ser	Phe	Ile	Pro	Gln	Thr	Phe
			20					25					30		
Ala	Glu	Val	Arg	Val	Ile	Tyr	Met	Ser	Phe	Asp	Gln	Gly	Ile	Leu	Ser
		35					40					45			
Glu	Ile	Glu	Cys	Leu	Asn	Arg	Thr	Glu	Ser	Ser	Asp	Asp	Gln		
	50					55					60				

<210> 10537

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10537

Lys	Gln	Arg	Gly	Arg	Lys	Leu	Met	Arg	Gly	Lys	Glu	Leu	Asp	Thr	Gln
1				5					10					15	
Ile	Glu	His	Glu	Leu	Gln	Leu	Met	Leu	Ile	Glu	Gly	Phe	Asp	Lys	Ser
			20					25					30		
Pro	Ile	Ser	Ala	Ile	Asn	Leu	His	Ala	Arg	Leu	Lys	Ser	Lys	Gly	Ile
		35					40					45			
Ile	Asn	Gly	Gly	Leu	Ser	Thr	Leu	Ser	Asn	Ile	Glu	Arg	Arg	Arg	Leu
	50					55					60				
Ile	Ala	Ala	Tyr	Val	Asp	Gln	Gln	Leu	Ser	Pro	Leu	Asn	Leu	Arg	Pro
65					70					75				80	
Lys	Glu	Lys	Gln	Gln	Tyr	Val	Asn	Arg	Lys	Thr	Arg	Gln	Ala	Leu	Leu
				85					90					95	
Gly	Arg	Asn	Gln	Gln	Leu	Gln	Glu	Glu	Asn	Lys	Glu	Leu	Arg	Glu	Gln
		100						105					110		
Leu	Ala	Gln	Asn	Thr	Leu	Ser	Leu	Ile	Glu	Ile	Val	Lys	Ala	Val	Lys
		115					120					125			
Ile	Asn	Thr	Val	Ile	Pro	Val	Glu	Ser	Leu	Leu	Ala	Pro	His	Leu	Ile
	130					135					140				
Met	Glu	Leu	His	Lys	Arg	Lys	Lys	Asp	Gln						
145					150					155					

<210> 10538

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 10538

Val	Ile	Leu	Asn	Asp	Ser	Glu	Val	Ser	Val	Lys	Pro	Val	Ala	Ile	Gln
1				5					10					15	
Tyr	Ile	Glu	Asp	Asp	Ile	Leu	Asp	Ala	Arg	Ala	Phe	Tyr	Ser	Ile	Leu
			20					25					30		
Phe	Gly	Leu	Lys	Ile	Leu	Cys	Cys	Glu	Glu	Phe	Pro	Gly	Phe	Thr	Leu
		35					40					45			
Glu	Asp	Tyr	Glu	Asp	Leu	Glu	Phe	Ile	Pro	Arg	Pro	Asn	Ala	Phe	Asn
	50					55					60				
Trp	Glu	Ile	Tyr	Gln	Asp	Ile	Asp	Asn	Ile	Leu	Glu	Pro	Leu	Glu	Lys
65					70					75				80	

Ser Met Ile Thr Lys Gly Leu Phe Glu Ile Ala Thr Gly Leu Ala Arg
 85 90 95
 Gly Lys Thr Tyr Asp Ile Lys Glu Leu Lys His Thr Ala Val Leu Ala
 100 105 110
 Leu Ser Tyr Ala Thr Gly Ala Arg Pro Val Gln Leu Ala Lys Leu Ser
 115 120 125
 Val Arg Asp Leu Arg Ile Asp Thr Cys Asp Thr His Thr Gly Leu Ile
 130 135 140
 Arg Tyr Ser Ile Leu Leu Pro Tyr Val Lys Gln Arg Arg Leu Thr Thr
 145 150 155 160
 Glu Arg Leu Leu Leu Ala Ile Pro Pro Glu Ile Gly Ala Leu Ile Lys
 165 170 175
 His Tyr Val Asp Lys Ala Gln Leu Leu Ser His Asp Arg Met Phe Glu
 180 185 190
 Met Gly Val Ser Ala Pro Ala Phe Val Ser Gln Ser Ile Ser Gln Ala
 195 200 205
 Ile Leu Asn Phe Ser Pro Pro Glu Tyr Gln Thr Ala Val Gly Arg Gly
 210 215 220
 Glu Ala Ala Pro Pro Ser Ile Thr Ser Thr Asp Leu Arg His Asn Val
 225 230 235 240
 Gly His Ser Leu Ala Met Gln Gly Ala Ser Ala Glu Glu Ile Ala His
 245 250 255
 Ile Leu Gly His Ser Ser Leu Val Val Ala Lys His Tyr Ile Arg Ala
 260 265 270
 Thr Pro Ala Leu Ala Leu Ile Arg Ala Lys Ala Leu Gly Ser Asn Pro
 275 280 285
 Val Trp Gln Asn Met Val Ala Met Met Leu Thr Gly Lys Leu Val Pro
 290 295 300
 Ser Lys Glu Trp Glu Gly Arg Arg Val Val Gly Met Val Gly Asp Arg
 305 310 315 320
 Leu His Tyr Glu Ile Gly Gly Cys Ala Arg Thr Asp Asp Glu Cys Pro
 325 330 335
 Phe Cys Glu Val Arg Cys Cys Tyr Gly Cys Leu Tyr Tyr Arg Pro Phe
 340 345 350
 Leu Asp Gly His His Gln Gly Val Leu Asn Ser Val Ser Lys Glu Val
 355 360 365
 Asp Glu Leu Ile Ala Val Ser Asp Ser Val Gly Asn Ala Leu Asn Pro
 370 375 380
 Leu Ile Ser Val His Glu Thr Thr Gln Ile Glu Ile Lys Ser Val Ile
 385 390 395 400
 Ala Arg Cys His Leu His Asn Val Arg Gly Cys Gly Lys
 405 410

<210> 10539

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10539

Arg Ala Leu Ser Lys Lys Gln His Lys Val Ser Thr Arg Ser Leu Phe
 1 5 10 15
 Asp Thr Arg Thr Gln Val Arg Leu Gln Leu Ser Arg Ser Val His Lys
 20 25 30
 Thr Leu Ala Ser Ala Lys Glu Ile Leu Gln Gly Arg Gly Val Asp Ser
 35 40 45
 Val Ser Ile Glu Asp Leu Val Arg Ala Cys Leu Glu Glu Asn Gln Pro
 50 55 60
 Ile Asp Leu Ala Ser Leu Tyr Leu Glu Asn Leu Leu Lys Gln Lys Gly
 65 70 75 80
 Thr Ser Ile Cys Asp Phe
 85

<210> 10540
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 10540
 Trp Trp Ile Val Phe Cys Phe Thr Ile Pro Asn Leu Arg Lys Lys Gln
 1 5 10 15
 Lys Thr Lys Leu Leu Trp Leu Ser Leu Asn Leu Asn Arg Leu Lys Glu
 20 25 30
 Lys Gly Val Lys Met Glu Leu Gly Ile Met Val Cys Ile Val Leu Leu
 35 40 45
 Leu Ser Val Ala Ala Ala Trp Ile Ser Asn Lys Thr Val Asp Leu Leu
 50 55 60
 Glu Arg Phe Tyr Phe Lys Arg Pro Leu Ser Met Glu Tyr Ala Ala Trp
 65 70 75 80
 Leu Arg Val Met Cys Ala Gly Leu Leu Leu Val Phe Ile Gln Val Ala
 85 90 95
 Pro Gln Phe Thr Leu Leu Tyr Thr Leu Lys Leu Val Thr Leu Ile Asn
 100 105 110
 Leu Gly Ile Gln Thr Met Lys Leu Asn Gly Val Tyr Lys Tyr Lys Arg
 115 120 125
 Thr Gly Ile Leu Pro Pro Gly Gly Ala Leu Ser Asn Leu Thr Arg Leu
 130 135 140
 Asn Pro Phe Lys Lys Lys
 145 150

<210> 10541
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 10541
 Asn Met Ser Thr Gln Lys Gln Leu Ser Arg Thr Thr Gly Thr Glu Arg
 1 5 10 15
 Met Phe Lys Glu Glu Leu Ala Leu Ser Leu Ile Cys Trp Val Phe Thr
 20 25 30
 Ser Pro Phe Thr Asn Trp Thr Asp Lys Val Phe Ser Gly Ile Glu Val
 35 40 45
 Pro Ser Glu Gly Pro Ser Ser Leu Arg Gly Glu Thr Glu Lys Phe Phe
 50 55 60
 Arg Phe Val Val Asn Glu Glu Gly Tyr Asp Ala Gly Arg Ala Ala Ile
 65 70 75 80
 Gly Leu Asp Leu Cys Cys Phe Ser Leu Pro Leu Cys Leu Phe Pro Asp
 85 90 95
 Ala Ala Leu Ser Glu Glu Glu Val Met Ser Lys Leu Thr Gly Glu Val
 100 105 110
 Ile His Gly Ile Leu Leu Ser Leu Pro Glu Phe Ile Asp Met Pro Glu
 115 120 125
 Val Leu Ala Tyr Gln Val Arg Asp Glu Ile Leu Ala Phe Asn Thr Arg
 130 135 140
 Cys Gly Asp Gly Ile Phe His Gly Trp Asn Thr Ala Ser Glu Leu Trp
 145 150 155 160
 Lys Phe Glu Ile Phe Pro Arg Thr Thr Ile Met Met Gln His Thr Ser
 165 170 175
 Ala Ile His
 180

<210> 10542
 <211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 10542

Gly	Thr	Thr	Met	Gln	Trp	Ile	Ser	Thr	Ala	Ser	Gln	Lys	Ile	Asp	Glu
1				5					10					15	
Arg	Leu	Tyr	Arg	Val	Cys	Val	Trp	Val	Lys	Lys	Tyr	His	Ala	Asp	Ala
			20					25					30		
Ile	Asn	Arg	Val	Val	Leu	Thr	Val	Asp	Leu	Ser	Lys	Ala	Arg	His	Asp
		35					40				45				
Pro	Asp	Glu	Asp	Gln	Val	Arg	Ala	Glu	Leu	Leu	Cys	Gly	His	Tyr	Phe
	50					55					60				
Leu	Leu	Arg	Lys	Glu	Asn	Ala	Ser	Asn	Ser	Ala	Pro	Asp	Asp	Gln	Lys
65					70					75				80	
Phe	Ala	Phe	Leu	Pro	Asp	Gly	Arg	Asn	Leu	Cys	Trp	Gln	Thr	Ala	Thr
				85					90					95	
Pro	Val	Leu	Gln	His	Leu	Leu	Leu	Asn	Lys	Asn	Val	Pro	Glu	Ser	Leu
			100					105					110		
Arg	Leu	Leu	Thr	Asp	Tyr	Ile	His	Met	Arg	Leu	Ala	Arg	Leu	Thr	Met
		115					120					125			
Val	Pro	Met	Ser	Gly	Thr	Ile	Met	Asn	Glu	Ala	Leu	Leu	Asp	Ser	Ile
	130					135					140				
Ser	Trp	Val	Lys	Val	Asp	Leu	Thr	Tyr	Phe	Trp	Gln	Tyr	Glu	Gln	Leu
145					150					155					160
Ser	Ser	His	Leu	Gly	Pro	Ile	Gln	Ile	Thr	His	Lys	Ala	Leu	Val	Arg
				165					170					175	
Phe	Gly	His	Leu	Ala	Lys	Asn	Asp	Glu	Asn	Ser	Ser	Ala	Ile	Arg	Ile
			180					185					190		
Leu	Arg	Gln	Arg	Leu	Ser	Ser	Glu	Phe	Leu	Gln	Glu	Phe	Gln	Met	Ala
		195					200					205			
Glu	Asp	Glu	Leu	Lys	Arg	Lys	Gln	Ser	Leu	Met	Gly	Thr	Met	Asp	Val
	210					215					220				
Lys	Met	Leu	Phe	His	Ala	His	Tyr	Pro	Ser	Gln	Lys	Met	Leu	Val	Ala
225					230					235					240
Arg	Tyr	Lys	Asn	Gly	Trp	Val	Met	Val	Asp	Cys	Phe	Leu	Phe	His	His
				245					250					255	
Thr	Lys	Pro	Lys	Lys	Lys	Ala	Lys	Asn	Lys	Thr	Thr	Val	Ala	Lys	Pro
		260						265					270		
Gln	Leu	Lys	Gln	Thr	Lys	Arg	Glu	Gly	Ser	Glu	Asn	Gly	Thr	Gly	His
		275					280					285			
Tyr	Gly	Val	His	Arg	Val	Val	Thr	Leu	Ser	Gly	Gly	Gly	Val	Asp	Gln
	290					295					300				

305

<210> 10543

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10543

Cys	Ile	Tyr	Phe	Ile	Asp	Gly	Tyr	His	Leu	Leu	Tyr	Ile	Thr	Leu	Asn
1				5					10					15	
Asp	Lys	Asn	Arg	Pro	His	Gln	Arg	Pro	Tyr	Trp	Arg	Gln	Tyr	Glu	Val
			20					25				30			
Asn	Met	Gln	His	Gln	Asp	Ala	Leu	Gln	Arg	Lys	Leu	Pro	Glu	Arg	Ile
		35					40				45				
Phe	His	Ala	Val	Cys	Phe	Glu	Gly	Ile	Ala	Thr	Ala	Ile	Leu	Ala	Pro
	50					55					60				
Thr	Ala	Ala	Trp	Leu	Met	Gln	Arg	Ser	Val	Val	Glu	Met	Gly	Gly	Leu
65					70					75					80

Thr Ile Ile Leu Ala Thr Thr Ala Met Leu Trp Asn Ile Ile Tyr Asn
 85 90 95
 Phe Gly Phe Asp Arg Phe Trp Pro Val Gln Arg Val Lys Arg Thr Ala
 100 105 110
 Lys Val Arg Ala Leu His Ala Leu Gly Phe Glu Cys Gly Phe Ile Val
 115 120 125
 Ile Gly Val Thr Ile Val Ala Ala Val Leu Gly Val Thr Leu Leu Gln
 130 135 140
 Ala Phe Thr Leu Glu Ile Gly Phe Phe Leu Phe Phe Leu Pro Tyr Thr
 145 150 155 160
 Met Leu Tyr Asn Trp Ala Tyr Asp Thr Leu Arg Glu Lys Ile Ile Lys
 165 170 175
 Arg His Gln Gln Arg Arg Ala Leu Ala Ser Glu
 180 185

<210> 10544

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10544

Pro Arg Asn Thr Phe Leu Ser Leu Leu Cys Asp Pro Ile Glu Asp Ala
 1 5 10 15
 Cys Asn Leu Leu Val Leu Ile Ile Lys Ala Gly Gln Arg Gly Ile Leu
 20 25 30
 Pro Gly Gln Ala Thr Cys Gly Arg Leu Leu Val Phe Glu Arg Ser Phe
 35 40 45
 Tyr Val Ile Ile Glu Ile Ile Lys Trp Tyr Ala Ala Gly Lys Met Glu
 50 55 60
 Tyr Leu Pro Gly Val Ala Ile Ile Gly Ile Gln Asn Ser Cys Thr Ala
 65 70 75 80
 Leu Ser Leu Tyr Ile Asp Ala Gly Gln Gly Lys Ile Glu Ser Phe Leu
 85 90 95
 Phe Leu Ile Asn
 100

<210> 10545

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 10545

His Val Ser Ser Leu Arg Cys Trp Leu His Leu Leu Asp Ala Asn Asn
 1 5 10 15
 Met Lys Arg Lys Ile Ile Pro Val Leu Ile Gly Cys Ala Leu Ser Phe
 20 25 30
 Ser Gly Leu Ala Ala Gln Pro Thr Ala Glu Arg Tyr Ile Val Ser Phe
 35 40 45
 Pro Asp Gly Ser His Val Lys Tyr Ser Gly Ala Phe Ala Asp Ala Phe
 50 55 60
 Pro Asn Gly Leu Pro Val Gly Met Gly Ser Gly Leu Leu Phe Thr Gly
 65 70 75 80
 Lys Gln Gly Asp Ala Leu Thr Phe Ala Thr Val Thr Asp Arg Gly Pro
 85 90 95
 Asn Ala Asp Ser Pro Lys Met Gly Lys Asn Asp Ala Lys Ile Phe Val
 100 105 110
 Thr Pro Asp Phe Ala Pro Leu Leu Met Thr Ile Arg Val Gln Asn Gly
 115 120 125
 Lys Ala Glu Ala Val Asp Ala Arg Pro Leu His Asp Asp Lys Gly Glu
 130 135 140
 Ile Asn Gly Leu Pro Leu Gln Ser Gly Val Ile Gly Ser Thr Asn Glu

```

145          150          155          160
Val Ala Leu Ser Asp Thr Leu Lys Val Leu Lys Gly Asp Asn Arg Gly
165          170          175
Leu Asp Thr Glu Gly Ile Thr Pro Asp Gly Lys Asp Gly Tyr Trp Leu
180          185          190
Cys Asp Glu Tyr Gly Pro Phe Leu Ile Asn Val Asp Ser Lys Gly Lys
195          200          205
Ile Leu Ala Ile His Gly Pro Gln Ala Thr Gln Gly Glu Lys Ser Ile
210          215          220
Ala Gly Gly Leu Pro Asn Val Ile Lys Trp Arg Gln Ala Asn Arg Gly
225          230          235
Phe Glu Gly Leu Thr Arg Met Pro Asp Gly Arg Ile Ile Ala Ala Val
245          250          255
Gln Ser Thr Leu Asp Ile Asp Gly Lys Ser Lys Lys Gln Ala Leu Phe
260          265          270
Thr Arg Leu Val Ser Phe Asp Pro Ala Thr Gly Lys Thr Ala Met Tyr
275          280          285
Gly Tyr Pro Val Asp Ser Ala Ala Tyr Ser Lys Asn Ser Asp Ala Lys
290          295          300
Ile Gly Asp Ile Val Ala Leu Asp Asn His Thr Ile Leu Leu Ile Glu
305          310          315
Gln Gly Glu Asp Lys Asn Asp Ala Met Arg Asn Leu Ile Tyr Arg Val
325          330          335
Asp Leu Ser Lys Ala Ser Asp Leu Ala Ala Phe Asp Lys Pro Gly Glu
340          345          350
Tyr Pro Glu Phe Asp Asp Glu Lys Thr Leu Ala Gln Arg Gly Ile Thr
355          360          365
Leu Ala Glu Lys Thr Gln Val Val Asp Leu Arg Ala Leu Gly Trp Gln
370          375          380
Gln Glu Lys Ala Glu Gly Leu Ala Leu Ile Asp Ser Lys Thr Leu Ala
385          390          395
Val Ala Asn Asp Asn Asp Phe Gly Val Lys Val Ala Met Gln Asn Pro
405          410          415
Val Glu Gly Lys Lys Leu Lys Asp Tyr Arg Val Asn Ala Glu Gly Lys
420          425          430
Leu Thr Leu Asp Asp Lys Pro Val Glu Thr Thr Leu Ser Val Lys Pro
435          440          445
Leu Lys Lys Pro Glu Ser Asp Ser Glu Leu Trp Ile Val Thr Leu Pro
450          455          460
Glu Ala Leu Lys
465

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<210> 10546

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10546

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Asn Ala Ala Asn Asn Asn Lys Asn Gly Glu His His Gln Gln Tyr Phe
1          5          10          15
Cys Lys Lys Thr Lys Leu Tyr Ile Tyr Cys Lys Arg Lys Lys Lys Lys
20          25          30
Arg Thr Pro Gly Lys Glu Arg Arg Pro Ser Gly Gln Leu Ile Tyr Asn
35          40          45
Thr Ala Thr Phe Glu Pro Asn Lys Met Asn Asn Asn Phe Leu Ser Ser
50          55          60
Pro Arg Gly Cys Gln Val Pro Arg
65          70

```

<210> 10547

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10547

```

Pro Thr Leu Phe Leu Ser Gly Leu Glu Leu Ile Lys Tyr Lys Lys Gln
1          5          10          15
Asn Gly Ile Asn Met Ile Phe Ser Arg Cys Ala Arg Ala Glu Ile Lys
          20          25          30
Glu Asn Met Arg Lys Arg Lys Asn Lys Lys Ala His Val Thr Ser Asn
          35          40          45
Val Gly Leu Asn Ile Gly Gly Thr Asp Gly Thr Arg Thr Arg Asp Pro
          50          55          60
Leu Arg Asp Arg Gln Val Phe
65          70

```

<210> 10548

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10548

```

Leu Asn Gly Ile Pro Glu Val Lys Ser Ala Leu Asn Gly Arg Lys Tyr
1          5          10          15
Phe Ala Lys Gln Ile Val Ser Phe Arg Phe Cys Gly Glu Ile Lys Pro
          20          25          30
Val Leu Arg Tyr Ser Ser Asp Asp Lys Val Asn Asp Ser Cys Gln Lys
          35          40          45
Ala Gly Ala Tyr Arg Glu Gln Thr Tyr Asn Glu Arg Lys
          50          55          60

```

<210> 10549

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10549

```

Tyr Gly His Phe Asp Ser Leu Cys Arg Lys Tyr Asp Phe Val Leu Pro
1          5          10          15
Phe Trp Arg Cys Asp Gln Arg Ala His Cys Gly Ala Val Leu His Lys
          20          25          30
Phe Ser Leu Ile Asn Lys Leu Leu Phe Leu Val Ala Lys Cys Leu Val
          35          40          45
Gly Asn Thr Pro Phe Thr Phe Ser Glu Leu Leu Thr Gly Ala Cys Arg
          50          55          60
Arg Gly Pro Lys Ser Leu Val Phe Arg Ile Gly Ala Tyr Phe Arg Arg
65          70          75          80
Trp Gly Leu Leu Thr Arg Ser
          85

```

<210> 10550

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10550

```

Arg Gly Ser His Cys Leu Tyr Val His Gly Phe Arg Phe Phe Phe Thr
1          5          10          15
Pro Leu Ala Gly Val Leu Phe Ala Phe Pro Ser Arg Tyr Trp Phe Thr
          20          25          30
Ile Gly Gln Ser Gly Val Phe Ser Leu Gly Gly Trp Ser Pro His Ile
          35          40          45

```

Gln Thr Gly Tyr His Val Ser Arg Pro Thr Leu Arg Val His Ser Lys
 50 55 60
 Cys Val Phe Val Tyr Gly Thr Ile Thr Leu Tyr Arg Arg Thr Phe Gln
 65 70 75 80
 Thr Val Pro Leu Thr His Lys Leu Ile Gln Thr Pro Gly Cys Ser Pro
 85 90 95
 Phe Ala Arg Arg Tyr Trp Gly Asn Leu Gly
 100 105

<210> 10551
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 10551
 Pro Asp Phe Ser Ala Ile Ser Ser Thr Ser Lys Val Asp Val Ser Glu
 1 5 10 15
 Phe Ser Thr His Trp Thr Ile Ser Leu Thr Thr Leu Ser Ala Tyr Val
 20 25 30
 Phe Val Ile Ile Cys Pro Leu Ile Thr Lys Phe Tyr Ile Tyr Leu Lys
 35 40 45
 Lys Lys Tyr Lys Phe Phe Ile His Glu Glu Leu Ser Arg Asn Thr Ile
 50 55 60
 Tyr Val Thr Ile Ser Asp His Leu Leu Gln Pro Glu Gly
 65 70 75

<210> 10552
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10552
 Ala Ala Val Thr Ala Met Ser Met Met Phe Ile Ser Leu Ile Ile Leu
 1 5 10 15
 Ser Val Val Met Val Thr Pro Leu Met Leu Met Ile Ala Met Thr Met
 20 25 30
 Phe Phe Leu Thr Met Ile Met Phe Phe Ile Ser Met Thr Met Phe Met
 35 40 45
 Ala Ala Ser Phe Met Cys Met Pro Thr Phe His Met Pro Leu Leu Ala
 50 55 60
 Met
 65

<210> 10553
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10553
 Tyr Phe Arg Ile Lys Leu Ile Asn Arg Lys Ser Ser Val Met Ala Lys
 1 5 10 15
 His Lys Ser Asn Ser Leu Val Leu Arg His His Gly Pro Arg Lys Ile
 20 25 30
 Ala Asn Leu Leu Thr Leu Cys Phe His Glu Asn Asp Val Ala Pro His
 35 40 45
 Leu Leu Val Tyr Pro Asn Asp Leu Tyr His Gln Gln Ser Leu Ile Tyr
 50 55 60
 Glu Glu
 65

<210> 10554

<211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10554
 Ala Thr Arg His Phe Leu His Trp Asp Arg Leu Pro Arg Tyr His Arg
 1 5 10 15
 Phe Ile Tyr Lys Thr Cys Ser Phe Thr Tyr Leu Thr Ile Asn Arg His
 20 25 30
 Ser Leu Thr Trp Ser Asn Phe Asp Asn Val Ile Lys Asp Tyr Ile Ile
 35 40 45
 Asn Trp Asn Ile Asp Asn Asn Ala Ile Thr Gln His Met Arg Leu Phe
 50 55 60
 Gly Leu
 65

<210> 10555
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10555
 Ile Asn His Ser Glu Phe Met Cys Asp Lys Ile Val Trp Ser Phe Phe
 1 5 10 15
 Ile Tyr Ser Val Asn Arg Phe Thr Ser Arg Glu Leu Ile Gln Pro Glu
 20 25 30
 Val Gly Tyr Phe Asn Gly Gly Ala Met Gly Val Leu Phe Leu Met Asn
 35 40 45
 Gly Met Phe Val Lys Arg Ile Ala Asn Asn Val Arg Gly Ile
 50 55 60

<210> 10556
 <211> 710
 <212> PRT
 <213> Enterobacter cloacae

<400> 10556
 Asn Gly Asp Asn Gly Met Thr Glu Ala Lys Thr Lys Pro Tyr Ala Pro
 1 5 10 15
 Arg Val Val Ser Glu Gly Asp Ile Pro Val His Lys Thr Leu Gly Glu
 20 25 30
 Val Ala Gln Thr Arg Asn Val Gly Ile Pro Arg Pro Met Pro Gly Ile
 35 40 45
 Val Ile Leu Val His Gly Val Asn Asp Val Gly Glu Ala Tyr Gln Asn
 50 55 60
 Gln Glu Lys Gly Ile Leu Ala Gly Leu Gly Lys Arg Leu Asn Arg Gln
 65 70 75 80
 Asp Phe Tyr Ala His Glu Trp Lys Asp Tyr Arg Ile Ile Thr Pro Gly
 85 90 95
 Arg Ser Pro Ile Ile Pro Phe Tyr Trp Gly Tyr Lys Pro Val Thr His
 100 105 110
 Ala Asp Tyr Arg Ala Asp Gln Lys Arg Tyr Arg Glu Glu Val Gly Lys
 115 120 125
 Leu Ser Asp Lys Ala His Leu Pro Tyr Asp Ala Tyr Gln Glu Asp Asn
 130 135 140
 Glu Thr Asn Lys Lys Ser Leu Gly Asn Asp Gly Lys Gly Pro Phe Gln
 145 150 155 160
 Tyr Gln Asn Asp Asn Phe Lys Asn Ala Leu Asp Lys Ser Phe Ala Lys
 165 170 175
 Gly Gly Gly Thr Phe Ala Asn Ala Thr Thr Thr Ile Pro Asp Met Leu
 180 185 190

Gly	Pro	Gly	Ala	Gly	Gly	Phe	Gly	Val	Ala	Ala	Ala	Gly	Phe	Ala	Ser
		195					200					205			
Leu	His	Phe	Asn	Asp	Gly	Asp	Phe	Thr	His	Pro	Ile	Tyr	Glu	Asn	Pro
	210					215					220				
His	Arg	Ile	Tyr	Gln	Phe	Ala	Ala	Gln	Arg	Leu	Ala	Asp	Leu	Ile	
225				230					235					240	
Ile	Gln	Ile	Arg	Gln	Pro	Leu	Val	Thr	Gln	Asn	Asp	Val	Ile	Asn	Ile
				245					250					255	
Val	Ala	His	Ser	Gln	Gly	Thr	Ile	Ile	Thr	Met	Leu	Ala	Asn	Met	Leu
			260					265					270		
Val	Lys	Gln	Ala	Gly	Tyr	Asp	Pro	Val	Asn	Cys	Val	Ile	Leu	Asn	His
		275					280					285			
Ser	Pro	Tyr	Ser	Leu	Glu	Ser	Arg	Val	Ala	Glu	Asn	Ile	Gln	Pro	Gly
	290					295					300				
Tyr	Gln	Gln	Thr	Asp	Asp	Ala	Arg	Gln	Gln	Thr	Phe	Lys	Asn	Phe	Cys
305				310						315					320
Arg	Leu	Met	His	Thr	Gln	Trp	Lys	Gly	Gly	Gly	Lys	Met	Ala	Glu	Ser
				325					330					335	
Glu	Leu	Leu	Ala	Leu	Glu	Ala	Ser	Cys	Thr	Leu	Arg	Lys	Pro	Ser	Asp
			340					345					350		
Asn	Pro	Leu	Arg	Thr	Asp	Gly	Arg	Tyr	Cys	Arg	Ser	Asn	Asp	Gly	Lys
		355					360					365			
Val	Tyr	Asn	Tyr	Phe	Cys	Pro	Asn	Asp	Gly	Val	Val	Ser	Leu	Glu	Asn
	370					375					380				
Val	Gln	Gly	Phe	Gly	Trp	Arg	Gly	Ile	Pro	Gln	Asn	Ile	Ala	Ser	Asp
385				390						395					400
Ile	Pro	Asn	Leu	Phe	Gln	Arg	Val	Phe	Tyr	Gln	His	Gly	Glu	Val	Gly
				405					410					415	
Asn	Ile	Pro	Asp	Ala	Asn	Pro	Phe	Glu	Leu	Pro	Pro	Arg	Asn	Glu	Gly
		420						425					430		
Asp	Ala	Lys	Tyr	Ala	Phe	Leu	Thr	Asn	Ala	Ser	Tyr	Ser	Ala	Arg	Asp
		435					440					445			
Val	Val	Ile	Asn	Gly	Glu	Glu	Leu	Pro	Glu	Pro	Phe	Ile	Phe	Lys	Leu
	450					455					460				
Gln	Gly	Glu	Asp	Asn	His	Pro	Asp	Asn	Asp	Pro	Lys	Thr	Ser	Asp	Asn
465				470						475					480
Pro	Tyr	Thr	Tyr	Tyr	Val	Asp	Pro	Asp	Ser	Pro	Asp	Ala	Tyr	Ile	Ser
				485					490					495	
Tyr	Ser	Ala	Lys	Ala	Ser	Ala	Ile	Lys	Arg	Thr	Val	Thr	Thr	Thr	Phe
			500					505					510		
Ala	Val	Asn	Arg	Tyr	Gln	Asn	Ile	Gly	Trp	Gln	Pro	Gly	His	Val	Leu
		515					520					525			
Ser	Ala	Ser	Glu	Leu	Lys	Glu	Glu	Ser	Phe	Glu	Arg	Lys	His	Glu	Val
	530					535				540					
Ile	Tyr	Gly	Glu	Val	Ser	Gly	Ser	Arg	Asp	Phe	Gln	Leu	Val	Thr	Leu
545				550						555					560
Thr	Trp	Lys	Lys	Thr	Pro	Glu	Glu	Leu	Gln	Ala	Glu	Trp	Gln	Lys	Ile
				565					570					575	
Asp	Pro	Val	Gly	Tyr	Ser	Gln	His	Ser	Ser	Ile	Val	Met	Ser	Glu	Phe
			580					585					590		
Ala	Pro	Ser	His	Ala	Met	Ala	Phe	Asp	Leu	Ala	Ile	Gly	Gln	Cys	Lys
		595					600					605			
Ser	Phe	Asp	Tyr	Gln	Ala	Gly	Lys	Phe	Trp	Glu	Gly	Leu	Leu	His	Arg
	610					615					620				
Ala	Asp	Trp	Arg	Asp	Pro	Gln	Asn	Glu	Asn	Pro	Tyr	Ala	Arg	Ala	Tyr
625				630						635					640
Tyr	Arg	Thr	Gly	Lys	Leu	Asp	Glu	Pro	Thr	Thr	Lys	Phe	Phe	Met	Asn
				645					650					655	
Lys	Pro	Tyr	Asp	Val	Leu	Pro	Lys	Gly	Glu	Tyr	Gly	Val	Val	Asn	Lys
			660					665				670			
Phe	Asn	Asn	Ala	Thr	Thr	Val	Lys	Pro	Ser	Ser	Asp	Leu	Val	Ala	Gly

675	680	685
Asn Gln Asp Val Ala Asn Leu Gln Trp Asp Met Pro Lys Pro Ile Ser		
690	695	700
Asp Ser Gln Leu Ala		
705	710	

<210> 10557

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10557

Ser Met Lys Ile Ser Phe Met Gly Leu Met Ala Thr Ala Val Leu Leu	
1 5 10 15	
Ala Ile Gly Cys Gln Ala Lys Arg Thr Ala Thr Gln Val Val Tyr Arg	
20 25 30	
Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Arg Glu Gly	
35 40 45	
Glu Leu Trp Tyr Thr Asp Thr Glu Leu Gly Ile His Thr Gln Pro Val	
50 55 60	
Ser Gln Phe Tyr Lys Ile Phe Thr Lys Lys Phe Ile His Pro Ser Glu	
65 70 75 80	
Arg Tyr Ile Ala Ile Pro Thr Trp Gly Ser Pro Gly Thr Ile Ile Ser	
85 90 95	
Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Tyr Ser Ala Gly Ser	
100 105 110	
Asn Glu Pro Asn Gly Asp Ser Ser Pro Pro Tyr Asp Asp Ile Ile Ser	
115 120 125	
Phe Thr Val Val Lys Asp Gln Gly Phe Met Leu Thr Lys His Arg Leu	
130 135 140	
Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly	
145 150 155 160	
Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser	
165 170 175	
Gly Lys Leu Asp Pro Arg Ser Pro Gly Trp Ala Trp Gly Met Val Tyr	
180 185 190	
Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn	
195 200 205	
Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly	
210 215 220	
Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg	
225 230 235	

<210> 10558

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10558

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu	
1 5 10 15	
Val Thr Gly Cys Leu Val Lys Glu Pro Pro Thr Gln Val Val Tyr Arg	
20 25 30	
Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Asp Cys Glu Gly	
35 40 45	
Glu Leu Trp Tyr Thr Asp Thr Lys Arg Gly Ile His Thr Glu Pro Val	
50 55 60	
Ser Gln Phe Tyr Arg Leu Phe Thr Arg Lys Phe Ile His Pro Ser Glu	
65 70 75 80	
Arg Tyr Ile Ala Leu Thr Gly Trp Gly Val Ser Gly Phe Ile Val Ser	
85 90 95	

Lys Asp Tyr Gly Lys Thr Trp Arg Ser Val Ala Phe Ser Pro Asn His
 100 105 110
 Asn Glu Pro Asn Gly Asp Asp Tyr Ala Pro Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Gln Thr Lys His Gln Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Glu Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10559

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10559

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Cys Asp Arg
 35 40 45
 Lys Leu Trp Phe Pro Asp Thr Lys Pro Ser Ile His Ser Glu Thr Pro
 50 55 60
 Lys Phe Val
 65

<210> 10560

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10560

Lys Arg Ser Ile Phe Glu Arg Cys Val Arg Ile His Leu Pro Val Phe
 1 5 10 15
 Thr Phe Gln Glu Arg Gln Asn Ser Ser Ala Leu Val Met Ile Phe Pro
 20 25 30
 Pro Phe Tyr His Ser Cys Arg Lys Pro Lys Arg Gln Pro Cys Ser Lys
 35 40 45
 Phe Ala Thr Tyr Pro Glu Gly Ala Asn Gly Val Leu
 50 55 60

<210> 10561

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10561

Lys Arg Thr Pro Arg Ser Gly Leu Pro Lys Cys Pro Cys Ala Leu Phe
 1 5 10 15
 Val Ser Leu Thr Lys Ser Cys Ser Lys Val Gly Tyr Gln Ile Ile Leu
 20 25 30

Leu Leu Tyr Arg Ser Asp Gly Ile Val Gln Pro Arg Thr Ile Pro Ser
 35 40 45
 Leu Thr Val Ile Lys Asn Lys Asp Asn Ile Gly Pro Thr Ile Tyr Leu
 50 55 60
 Asn Ile Leu Ser Leu Phe Leu Thr Pro Ile Thr Tyr Arg
 65 70 75

<210> 10562

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10562

Lys Ser Asn Gly Pro Leu Ser Pro Leu Phe Val Thr Ser Ser Gln Phe
 1 5 10 15
 Tyr Tyr Ser Arg Pro Leu Ser Leu Leu Ser Val Val Val Ile Ser Leu
 20 25 30
 Pro Glu Pro Cys Leu Leu Phe Ile Thr His Ile Ala Gly His Gly Ile
 35 40 45
 Asp Ile Asn Trp Leu Ala Leu Gly Val His Thr Gly Lys Thr Ala Cys
 50 55 60
 Gln Lys Ile Lys Ile Leu
 65 70

<210> 10563

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 10563

Trp Arg Cys Cys Thr Cys Gly Trp Ala Arg Thr Trp Met Tyr Val Cys
 1 5 10 15
 Ser Tyr Ala Leu Pro Gly Ile Cys Cys Arg Met Arg Gly Cys Pro Ala
 20 25 30
 Met Arg Asn Lys Ser Arg Arg Ser Gly Ala Arg Gln Cys Cys Val Pro
 35 40 45
 Leu Ile Arg Asn Arg Thr Glu Thr Thr Leu Ser Pro Phe Thr Leu Asp
 50 55 60
 Ala Phe Ser Ala Ser Gly Lys Thr Phe Ser Glu Gly Lys Thr Met Lys
 65 70 75 80
 Met Ala Ile Thr Ala Gly Lys Ala Leu Ala Ile Thr Leu Ala Thr Leu
 85 90 95
 Leu Thr Gly Cys Gly Leu Thr Gln Lys Val Thr Asp Gly Thr Val Ala
 100 105 110
 Val Thr Lys Ser Ile Phe Tyr Arg Gln Val Lys Thr Leu His Leu Asp
 115 120 125
 Ile Gln Ala Arg Glu Gly Val Asn Asn Asn Ala Lys Gly Ala Ser Leu
 130 135 140
 Ala Thr Val Val Arg Ile Tyr Gln Leu Lys Glu Arg Lys Ala Phe Asp
 145 150 155 160
 Ser Thr Asp Tyr Pro Ser Leu Phe Ala Ser Asp Thr Gln Ala Ile Lys
 165 170 175
 Ala Asp Leu Val Ala Glu Lys Asp Ile Arg Leu Arg Pro Gly Glu Ser
 180 185 190
 Val Thr Leu Asp Met Pro Met Glu Glu Ser Ala Gln Val Val Ala Val
 195 200 205
 Ala Gly Met Phe Met Ala Pro Asp Gln Val Asn Asp Thr Trp Arg Ile
 210 215 220
 Thr Leu Thr Arg Asp Asp Leu Asp Pro Asp Lys Ala Arg Val Ile Glu
 225 230 235 240
 Val Ser Asn Asn Arg Leu Thr Leu Lys Pro Leu Glu Gly Glu

245

250

255

<210> 10564

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10564

```

Ile Pro Val Gly Pro Glu Pro Ile Met Ala Ile Phe Phe Ile Glu Ser
1      5      10      15
Val Pro Ala Phe Leu Asn His Thr Thr Ser Val Ala Gly Glu Arg Leu
20      25      30
Ser His Ser Met Lys Gly Glu Ile Lys Thr Phe Arg Arg Gly Asp Val
35      40      45
Ala Pro Leu Pro Glu Phe Met Gly Lys Ser Ile Gln Leu Thr Leu Leu
50      55      60
Ile Arg Tyr Asn Ser Ala
65      70

```

<210> 10565

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10565

```

Ala Arg Cys Arg Lys Arg Lys Arg Lys Ala Val Ala Gly Met Lys Ile
1      5      10      15
Tyr Arg Pro Leu Trp Glu Asp Gly Ala Phe Leu Ala Pro Gln Gln Phe
20      25      30
Gln Gln Gln Ala Arg Trp Asp Ala His Val Ala Asp Thr Val Ala Arg
35      40      45
Met Ala Leu Ala Asn Pro Trp Gly Val Leu Cys Ala Glu Phe Asp Glu
50      55      60
Gly Ala Leu Ala Leu Ser Arg Leu Asn Ala Thr Arg Leu Cys Val Arg
65      70      75      80
Phe Ala Asp Gly Thr Leu Val Asp Thr Asp Leu Ala Asp Thr Arg Leu
85      90      95
Arg Ser Gly Ser Arg Tyr Ala Ala Val Ala Ile Ser Gly Ala Ala Ala
100      105      110
Gly Asp Asp Ala Ala Gly Thr Asp Gly Gly Gly Asn Gly Gly Ala Gly
115      120      125
Ala Ala Ala Gly Thr Gly Tyr Ala His Ala Gly Leu Ser Pro
130      135      140

```

<210> 10566

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 10566

```

Met Pro Pro Gly Phe Ala Cys Ala Leu Arg Met Val Arg Trp Trp Thr
1      5      10      15
Gln Ile Trp Arg Ile Pro Gly Cys Ala Gln Ala Ala Gly Thr Pro Leu
20      25      30
Ser Arg Phe Leu Ala Leu Leu Pro Val Met Met Leu Pro Gly Arg Thr
35      40      45
Ala Glu Gly Met Gly Ala Leu Val Arg Leu Leu Ala Pro Asp Thr Arg
50      55      60
Thr Gln Val Tyr His His Asp Arg Cys Arg Ile Pro Leu Lys Gln Pro
65      70      75      80
Val Ala Met Ser Thr Cys Gln Pro Val Ser Leu Lys His Arg Pro Val

```

				85					90					95			
Met	Gly	Thr	His	Ala	Thr	Asp	Val	Asn	Gly	Gln	Val	Leu	Leu	Arg	Leu		
			100					105					110				
Ser	Thr	Asp	Asn	Pro	Glu	Glu	Ile	Arg	Gly	Trp	Leu	Pro	Gly	Gly	Asp		
		115					120					125					
Leu	His	Ala	Asp	Leu	Met	Ala	Leu	Leu	His	Val	Trp	Leu	Gly	Ala	His		
		130				135					140						
Leu	Asp	Val	Arg	Met	Gln	Leu	Cys	Val	Ala	Arg	His	Leu	Leu	Pro	Asp		
145					150				155						160		
Ala	Arg	Leu	Ser	Cys	Asn	Ala	Glu	Gln	Ile	Ala	Gln	Val	Gly	Arg	Thr		
			165					170							175		
Ala	Val	Leu	Arg	Pro	Leu	Asn	Pro	Gln	Gln	Asn	Arg	Asn	Asp	Ile	Ile		
			180					185					190				
Thr	Ile	His	Pro	Gly	Arg	Phe	Gln	Arg	Val	Arg	Glu	Asn	Ile	Gln	Arg		
		195				200						205					
Arg	Lys	Asn	Asp	Glu	Asp	Gly	Asp	Tyr	Arg	Trp							
	210					215					220						

<210> 10567

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10567

Ser	Ser	Asp	Ala	Glu	Thr	Ala	Gly	Gly	Gly	Met	Met	Pro	Arg	Pro	Ser		
1				5				10					15				
Leu	Tyr	Asp	Met	Leu	Tyr	Gly	Asn	Phe	Ala	Gly	Gly	Leu	Asp	Leu	His		
		20					25					30					
Ser	Val	Ser	Glu	Glu	Asn	Gln	Leu	Ile	Leu	Ser	Val	Leu	Asp	Asn	Met		
		35				40						45					
Gln	Arg	Ile	Leu	Asn	Cys	Arg	Ala	Gly	Thr	Leu	Ala	His	Leu	Pro	Asp		
	50				55					60							
Tyr	Gly	Leu	Pro	Asp	Met	Thr	Lys	Ile	Leu	Gln	Gly	Met	Pro	Gly	Thr		
65				70				75						80			
Ala	His	Gln	Leu	Ile	Thr	Thr	Leu	Ser	Ala	Val	Leu	Leu	Lys	Tyr	Glu		
			85				90						95				
Pro	Arg	Leu	Ser	Arg	Ile	Asn	Val	Val	Met	Gln	Glu	Gln	Ile	Gln	Pro		
		100					105						110				
Gly	Glu	Leu	Arg	Tyr	Ala	Ile	Asp	Ala	Glu	Leu	Lys	Gly	Val	Gly	Leu		
		115				120						125					
Val	Arg	Tyr	Gly	Thr	Glu	Phe	Met	Pro	Glu	Gly	Arg	Val	Leu	Ile	Arg		
	130				135			140									
His	Leu	Lys	Gln	Gln	Gln	Tyr	Leu	Asp	Asn	Thr	Ala	Arg	Leu				
145				150				155									

<210> 10568

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10568

Lys	Leu	Gly	Glu	Arg	Gln	Pro	Glu	Arg	Pro	Asp	Ile	Tyr	Phe	Thr	Leu		
1			5				10					15					
Val	Gly	Lys	Asp	Thr	Leu	Lys	Ser	Asn	Phe	Ser	Met	Val	Tyr	Cys	Arg		
		20					25					30					
Thr	Cys	Ala	Val	Ala	Gly	Ser	Glu	Ile	Leu	Ile	Ile	Asp	Phe	Phe	Ala		
		35				40					45						
Val	Ser	His	Cys	Ile	Leu	Ser	Gly	Glu	Lys	Val	Asn	Gly					
	50				55						60						

<210> 10569

<211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 10569

Asn	Val	Arg	Glu	Asn	Arg	Leu	Val	Arg	Leu	Asn	Gly	Leu	Glu	Pro	Ser
1				5					10					15	
Thr	Pro	Thr	Met	Ser	Arg	Trp	Cys	Ser	Asn	Gln	Leu	Ser	Tyr	Arg	Arg
			20				25						30		
Lys	Met	Val	Arg	Ser	Ile	Gly	Leu	Glu	Pro	Thr	Thr	Pro	Thr	Met	Ser
		35				40					45				
Arg	Trp	Cys	Ser	Asn	Gln	Leu	Ser	Tyr	Glu	Arg	Ile	Val	Leu	Ser	Val
	50				55						60				
Thr	Thr	Gly	Thr	Asn	Ile	Ser	Gly	Thr	Ala	Val	Phe	Thr	Thr	Gly	Leu
65					70					75					80
Glu	Gly	Thr	Ala	Leu											
				85											

<210> 10570
 <211> 235
 <212> PRT
 <213> Enterobacter cloacae

<400> 10570

Val	Thr	Leu	Cys	Val	Gly	Ser	Ser	Ala	Arg	Ser	Trp	Ser	Lys	Thr	Ile
1				5					10					15	
His	Ser	His	Leu	Ser	Ser	Ala	Cys	Pro	Ile	Asn	Gln	Asn	Glu	Cys	Ser
			20				25						30		
Asn	His	Ile	Ser	Gln	Phe	Ser	Ile	Asp	Ile	Lys	Val	Gln	Asp	Trp	Leu
		35				40					45				
Ser	Arg	Ser	Arg	Val	Ala	Phe	Ile	Asp	Phe	His	Asn	Leu	Arg	Asn	Thr
	50				55					60					
Asp	Lys	Thr	Thr	Leu	Ile	Thr	Val	Glu	His	Leu	Glu	Ala	Leu	Leu	Thr
65				70					75						80
Val	Met	Ser	Thr	Thr	Leu	Val	Ala	Tyr	Ala	Pro	Tyr	Ser	Lys	Lys	Arg
				85					90					95	
Leu	Asn	Phe	Ser	Phe	Leu	Asn	Ser	Phe	Thr	Leu	Ser	Lys	Thr	Ser	Gln
		100					105						110		
Ser	Tyr	Thr	Leu	Thr	Phe	Pro	Val	Leu	Ser	Pro	Leu	Leu	Asp	Ala	
		115				120					125				
Leu	Gly	Gly	Phe	Ile	Gln	Glu	Cys	Ile	Thr	Glu	Lys	Leu	Leu	Lys	Arg
	130				135					140					
Arg	Asn	Ser	Asn	Phe	Met	Val	Tyr	Glu	Tyr	Leu	Lys	Arg	Ser	Gly	Gln
145				150					155						160
Ser	Ser	His	Lys	Val	Glu	Asp	Ile	Asn	Asn	Asp	Leu	Gln	Leu	Lys	Thr
			165					170						175	
Leu	Asn	Ile	Arg	Leu	Met	Ser	Val	Leu	Thr	Gly	Leu	Ser	Gln	Gln	Gly
		180					185						190		
Leu	Ile	Ser	Phe	Ile	Cys	Asp	Gly	Lys	Arg	Gly	Asp	Arg	Arg	Ile	Glu
		195				200					205				
Glu	Leu	Gln	Phe	Ile	Pro	Tyr	Val	Gln	Arg	Thr	His	Pro	Glu	Val	Leu
	210				215						220				
Thr	Phe	Gln	Glu	Trp	Ile	Ser	Pro	Val	Asp						
225					230										235

<210> 10571
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 10571

Lys His Asp Arg Phe Gly Ser His Pro Val Arg Arg Thr Tyr Ser Thr
 1 5 10 15
 Arg Gly Ser Pro Met Ser Asn Gln Pro Thr Ser Leu Pro Glu Asp
 20 25 30
 Ile Glu Phe Val Met Asp Thr Phe Gln Arg Ser Met Gly Lys Ser Lys
 35 40 45
 Pro Val Arg Asp Thr Gln Ile Glu Gly Glu Lys Pro Gln Ser Lys Glu
 50 55 60
 Ser Ala Asn Ser Thr Glu Asn Pro Gly Tyr Glu Glu Phe Phe
 65 70 75

<210> 10572

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10572

Gly Met Gly Asp Ile Val Ile Lys Arg Arg Asn Ile Arg Arg Ser Val
 1 5 10 15
 Tyr Gly Leu Leu Ile Val Leu Ile Ala Gly Asn Val Trp Leu Gly Leu
 20 25 30
 Arg Ala Asp Lys Ile His Lys Val Arg Tyr Gln Asp Phe Trp Ser Pro
 35 40 45
 Ala Thr Val Ile Lys Val Thr Val Met Pro Ser Thr Asn Glu Ile Gln
 50 55 60
 Leu Ser Gly Lys Ile Pro Lys Ser Val Arg Val Ser Asn Asn Tyr Val
 65 70 75 80
 Glu Tyr Ser Leu Pro Gly Thr Leu Ser Asp Lys Thr Ile Tyr Arg Ser
 85 90 95
 Val Leu Glu Asp Glu Met Leu Thr Leu Leu Asn Ala Gly Gly Gln Leu
 100 105 110
 Glu Val Lys Tyr Thr Leu Asp Lys Gln Thr Asn Arg Thr Lys Val Cys
 115 120 125
 Thr Lys Cys Leu Arg Val Ile Lys Asp Ile Asn His Gln Tyr Ser Ala
 130 135 140
 Thr Glu Val Lys His Gly Gln Ser
 145 150

<210> 10573

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 10573

Pro Thr Ala Gly Arg Arg Ile Ile Tyr Phe Trp Gln Ser Val Gly Phe
 1 5 10 15
 Val Arg Val Ile Lys Asp Ser Gly Phe Leu Pro Ala Phe Phe Lys Pro
 20 25 30
 Pro Cys Ile Val Leu Ala Pro Phe Met Arg Gly Phe Phe Phe Ala Ser
 35 40 45
 Phe Tyr Glu Leu Thr Ser Leu Ser Phe Ile Gln Arg His Lys Lys Leu
 50 55 60
 Phe Arg Val Thr Glu Pro Ile Arg Leu Gln Ser Asp Val Ala Ile Leu
 65 70 75 80
 Val Lys Val Phe Ser Lys Gly Pro Val Lys Cys His Leu Leu Ile Leu
 85 90 95
 Lys Leu Asn Pro Ile Met Gln Val Thr Ala Tyr Trp Leu
 100 105 110

<210> 10574

<211> 608

<212> PRT

<213> Enterobacter cloacae

<400> 10574

Gly	Tyr	Asn	Leu	Phe	Pro	Glu	His	His	Met	Arg	Lys	Thr	Leu	Ile	Gly
1				5					10					15	
Cys	Met	Val	Ala	Thr	Ala	Leu	Ala	Thr	Val	Ser	Ser	Ala	His	Ala	Gln
			20					25					30		
Val	Phe	Ser	Tyr	Ser	Phe	Thr	Asp	Thr	Asn	Lys	Ala	Val	Arg	Asn	Ile
		35					40					45			
Lys	Pro	Ala	Thr	Gln	Thr	Tyr	Leu	Asn	Pro	Ala	Gly	Val	Leu	Thr	Leu
	50					55					60				
Asn	Leu	Ile	Ser	Gly	Leu	Asp	Arg	Tyr	Glu	Arg	Val	Thr	Val	Thr	Arg
65					70					75					80
Asp	Ser	Asp	Lys	Lys	Val	Met	Tyr	Ser	Ser	Val	Ser	Thr	Lys	Thr	Ser
				85					90					95	
Val	Ala	Asp	Arg	Ile	Val	Ala	Ala	Asp	Gly	Thr	Glu	Tyr	Tyr	Gly	Lys
			100					105					110		
Asp	Met	Val	Leu	Pro	Ala	Leu	Gly	Glu	Gly	Thr	Phe	Thr	Val	Val	Asn
		115					120					125			
Glu	Thr	Leu	Asp	Ile	Arg	Gln	Thr	Val	Val	Ser	Thr	Ser	Thr	Tyr	His
		130				135					140				
Phe	Ile	Val	Asp	Thr	Thr	Pro	Pro	Arg	Tyr	Lys	Ser	Ile	Tyr	Pro	Ser
145					150					155					160
Gln	Asn	Ala	Gly	Tyr	Asp	Met	Val	Leu	Ser	Gly	Pro	Leu	Trp	Glu	Leu
				165				170						175	
Gly	Arg	Gly	Gly	Ser	Gly	Gln	Phe	Ser	Ile	Phe	Ala	Asp	Gly	Ile	Glu
			180					185					190		
Asp	Ala	Ser	Gly	Ile	Ala	Lys	Ile	Arg	Leu	Val	Ile	Lys	Arg	Ser	Asn
		195					200					205			
Gly	Ser	Val	Val	Ser	Asp	Asn	Asn	Leu	Ser	Tyr	Asp	Thr	Ala	Asn	Lys
		210				215					220				
Arg	Ala	Phe	Tyr	Pro	Trp	Ile	Lys	Asp	Met	Asn	Thr	Gln	Ala	Gly	Met
225					230				235						240
Pro	Ser	Ser	Asp	Leu	Asp	Glu	Glu	Phe	Thr	Phe	Asn	Phe	Ile	Val	Thr
				245					250					255	
Asp	Leu	Ala	Gly	Asn	Thr	Leu	Asn	Ile	Pro	Pro	Gln	Arg	Phe	Leu	Tyr
			260					265					270		
Asp	Asp	Gln	Met	Gly	Glu	Phe	Thr	Pro	Phe	Ala	Val	His	Asp	Ser	Arg
		275					280					285			
Val	Ser	Thr	Ser	Val	Val	Pro	Gly	Ile	Ser	Ser	Gly	Tyr	Val	Pro	Phe
		290				295					300				
Lys	Arg	Gly	Leu	Thr	Val	Leu	Glu	Asn	Pro	Tyr	Lys	Leu	Val	Ile	Arg
305					310					315					320
Ile	Pro	Arg	Thr	Asn	Trp	Lys	Pro	Tyr	Arg	Asn	Gly	Gly	Met	Ser	Ile
				325					330					335	
Thr	Asn	Asn	Tyr	Gly	Gly	Val	Gln	Val	Leu	Ser	Glu	Asp	Ala	Thr	Tyr
			340					345					350		
Val	Tyr	Val	Glu	Val	Lys	Leu	Pro	Gln	Gly	Ala	Leu	Asp	Gly	Asn	Tyr
		355					360					365			
Tyr	Arg	Pro	Val	Asn	Thr	Tyr	Gln	Trp	Ser	Gly	Gly	Asp	Leu	Gly	Gln
		370				375					380				
Tyr	Ala	Ser	Trp	Leu	Asn	Trp	Asp	Pro	Ala	Ser	Val	Lys	Ser	Pro	Ala
385					390					395					400
Trp	Gly	Ser	Ser	Pro	Ile	Glu	Arg	Gln	Lys	Ala	Asp	Gly	Thr	Trp	Phe
				405					410					415	
Asn	Ser	Val	Asn	Trp	Asn	Leu	Phe	Lys	Ala	Ser	Asp	Met	Pro	Ile	Lys
			420					425					430		
Leu	Thr	Asn	Ile	Arg	Phe	Asn	Val	Gln	Ala	Arg	Pro	Tyr	Asp	Gln	Lys
		435					440					445			
Ile	Thr	Gly	Gly	Ala	Thr	Cys	Ser	Ile	Pro	Ala	Gly	Ser	Thr	Thr	Cys

450		455		460
Thr Val Ser Leu Pro Gln Asp Ile Ile Asn Gly Thr Thr Gly Tyr Leu				
465		470		475
His Ser Gly Tyr Glu Val Arg Ser Thr Thr Glu Ala Thr Phe Phe Ala				
	485		490	495
Pro Ile Trp Glu Asn Ile Ala Trp His Thr Leu Gly Pro Ser Val Thr				
	500		505	510
Gly Phe Asp Tyr Ile Glu Thr Thr Asn Ile Leu Gln Val Tyr Val Asn				
	515		520	525
Gln Pro Gly Asp Gly Ser Tyr Phe Asp His Val Tyr Val Asn Arg Val				
	530		535	540
Trp Leu Ser Asp Lys Asn Arg Asn Asn Ala Glu Ile Ser Val Thr Gly				
545		550		555
Lys Gln Thr Gly Arg Asn Met Ala Ser Gly Asn Tyr Thr Tyr Glu Phe				
	565		570	575
Asn Met Lys Glu Val Pro Glu Gly Ser Tyr Asn Val Val Ile Asn Ala				
	580		585	590
Gln Asp Thr Phe Asn Asn Thr Gly Asn Leu Pro Tyr Gln Thr Val Val				
	595		600	605

<210> 10575

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10575

Val Asp Gln Val Trp Ile Ala Ile Cys Lys Gln Cys Ile Leu Cys Lys		
1	5	10
His Val Gln Lys Asn Gly Thr Thr Ala Tyr Lys Gly Phe Tyr Pro Pro		
	20	25
Ala Thr Met Ile Val Trp Val Val Met Ala Asp Glu Arg His Gln Phe		
	35	40
Arg Phe Ser Thr Ser Pro Phe Asp Tyr Arg His Val Ser Glu Met Ser		
	50	55
Ser Gln Ser Val Tyr Thr		60
65		70

<210> 10576

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10576

Ala Pro Lys Glu Lys Ser Val Thr Val Leu Asp Val Ile Leu Ser Leu		
1	5	10
Ile Val Ile Ile Ala Thr Met Asn Gly Asp Ala Ile Pro Ser Val Ala		
	20	25
Arg Thr Ile Thr Asp Ile Ser Asp Arg Phe Ser Leu Ala Asp Pro Leu		
	35	40
Leu Ile Ala Asp Ile Ala Leu Asn Ile Thr Asn Val Leu Leu Ser Ile		
	50	55
Arg Lys Gln His Lys Ser Met Tyr Asn Ile Gly Phe Pro Gln Pro Ile		
65	70	75
Ser Asp Gly Tyr Pro Val Ile Leu His Lys Phe Asp Ser Thr Asp Ala		
	85	90
Phe Lys Ile Ser Leu Pro		95
	100	

<210> 10577

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10577

```

Thr His Thr Cys Ser Ser Gln Thr Pro Tyr Phe Tyr Leu Phe Val Cys
1      5      10      15
Arg Leu Arg Leu Phe Leu Arg Cys Tyr Gly Phe Tyr Leu Thr Thr Lys
20      25      30
Leu Asp Leu His Lys His Gly Arg Asn Met Asn His Leu Gln Val Asp
35      40      45
Ser Arg Lys Pro Gly Glu Cys Trp Trp Phe Gln Cys Asn Gln Ile Gln
50      55      60

```

65

<210> 10578

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10578

```

Thr His Thr Thr Leu His Val Ser Phe Ser Leu Gly Thr Asn Phe Ser
1      5      10      15
Ser Val Val Leu Ser Met Ile Leu Arg Pro Asp Val His Pro Arg Asp
20      25      30
Leu Ser Leu Trp Leu Tyr Ile Pro Val Ile Leu Ala Ala Met Ala Ala
35      40      45
Leu Glu Phe Thr Ser Ile Glu Arg Val Pro Ser Phe Ser
50      55      60

```

<210> 10579

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10579

```

Glu Phe Gly Ser Gly Thr Phe Tyr Gly Ala Pro Gly Leu Asp Lys Arg
1      5      10      15
Asp Gln Cys Phe Ser Ile Ile Leu Phe Gln Asn Val Leu Leu Arg Ile
20      25      30
Arg Tyr Arg Pro Asp Ile His His Leu Thr Gly Lys Arg Asn Leu Tyr
35      40      45
Gly Thr Phe Thr Thr Asp Ile Gln Lys Ala Val Phe Thr Gly Tyr Asn
50      55      60
Thr Val Ala Cys Asp Ser Ile Ser Gly Ser Asn Gly Thr Lys Asn Gln
65      70      75      80
Leu Thr Thr Ile Asn Ser Gln Ser Thr Asp Met Leu Gly Thr Ile Ser
85      90      95
Asp Tyr Gly Cys Val Ile Ser Leu Arg Asn Lys His Cys Ile Arg Asp
100      105      110
Ala Leu Ser Ile Tyr Ser Val Glu His Lys Val Thr Phe Ser
115      120      125

```

<210> 10580

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10580

```

Ile Lys Arg Cys Ser Gly Ala Gln Phe Asp Arg Arg Phe Thr Ile Asn
1      5      10      15
Gly Asn Asn Val Thr Thr Ser Gly Val Ile Asn Leu Arg Ile Gly Pro

```

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<210> 10581
<211> 75
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10582
<211> 111
<212> PRT
<213> Enterobacter cloacae
```

<210> 10583

<211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10583

Ser	Ile	Lys	Gln	Gln	Ala	Val	Gln	Leu	Ile	Arg	Leu	Leu	Ile	Ile	Leu
1			5					10					15		
Leu	Trp	Gly	Leu	Trp	Leu	Phe	Phe	Leu	Gln	Pro	Met	Glu	Val	Pro	Leu
		20						25				30			
His	Ser	Leu	Leu	Arg	Gly	Asp	Leu	Leu	Val	Phe	Tyr	Gln	Arg	Met	Ala
	35					40					45				
Met	Val	Gln	Ala	Leu	Trp	Pro	Val	Leu	Val	Val	Leu	Val			
	50					55					60				

<210> 10584
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10584

Ser	Ala	Leu	Leu	Gly	Asn	Arg	Phe	Phe	Ala	Gln	Gly	Val	Gly	Asp	Ile
1			5					10					15		
Gln	Pro	Gly	Val	Thr	His	Val	Gln	Ala	Leu	Val	Gln	Thr	Leu	Ser	Ala
		20					25				30				
Thr	Ala	Asp	Lys	Asp	His	Phe	Leu	Thr	Gln	Lys	Glu	Ala	Arg	Ala	Ile
	35					40					45				
Ser	Lys	Ile	Ile	Ala	Arg	Gln	Glu	Ala	Ala	Lys	Ala	Gln			
	50					55					60				

<210> 10585
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10585

Phe	His	Val	Ile	Phe	Arg	Ile	Arg	Lys	Ser	Asn	Leu	Thr	Ile	Phe	Met
1			5					10					15		
Leu	Arg	Lys	Phe	Gly	Pro	Phe	Phe	Arg	Met	Lys	Tyr	Gln	His	Leu	Leu
		20					25				30				
Asn	Pro	Val	Arg	Ser	Leu	Leu	Ile	Leu	Cys	Gly	Phe	Asn	Arg	Ile	Phe
	35					40				45					
Pro	Val	Asn	Asn	Ser	Val	Gly	Phe	Ser	Ala	Ile	Phe	Gly	His	Lys	Leu
	50					55					60				

Met
 65

<210> 10586
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10586

Val	Ile	Val	Gly	Ile	Gln	Arg	His	Lys	Pro	Gly	Val	Ala	Ala	Ile	Ala
1			5					10					15		
Asp	Val	Asn	Gly	Ala	Asp	Gly	Arg	Arg	Ala	Val	Arg	Tyr	Arg	Leu	Pro
		20					25				30				
Asp	Pro	Asn	Ala	Arg	Lys	Leu	Leu	Ala	Gly	Ser	Leu	Gly	Gln	Arg	Asp
	35					40					45				
Gly	Ala	Gly	Ile	Glu	Ala	Gly	Met	Ile	Gly	Arg	Leu	Arg	Arg	Asn	Arg
	50					55					60				
Leu	Asn	Lys	Met	His	Arg	Lys	Leu	Ala	Phe	Gly					

65

70

75

<210> 10587

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10587

Ile	Ala	Trp	Tyr	Ser	Ala	Arg	Tyr	Arg	Cys	Asn	Phe	Ile	Thr	Met	His
1				5					10					15	
Cys	Thr	Ala	Phe	Thr	Arg	Phe	Leu	Lys	Pro	Leu	Ala	Leu	Asn	Val	Ala
		20						25					30		
Cys	Asp	Thr	Val	Ile	Phe	Arg	Arg	Leu	Gly	His	Tyr	Ala	Arg	Leu	Met
		35					40					45			
Thr	Gln	Gln	Thr	Ser	Ile	Leu	Cys	Ala	Thr	Gly	Ser	Glu	Gln	Asn	Pro
	50					55					60				
Thr	Ser	Ile	Lys												
65															

<210> 10588

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10588

Arg	Ala	Ser	Gly	Val	Asn	Val	Pro	Leu	Ala	Gly	Asp	Lys	Ala	Asn	Glu
1				5					10					15	
Gly	Glu	Met	Asp	Ile	Ser	Val	Asp	Ser	Lys	Thr	Gly	Ser	Lys	Pro	Val
		20						25				30			
Met	Glu	Ser	Asn	Ser	Arg	Ile	Ile	Leu	Ala	Ala	Asp	Ala	Ala	Leu	Ala
		35					40				45				
Ala	Ile	Asn	Glu	His	Phe	Ser	Asp	Glu	Phe	Val	Lys	Gly	Glu	Trp	Ala
	50					55				60					
Asp	Tyr	Ala	Ala	Leu	Arg	Arg	Ala	Ala	Leu	Arg	Thr	Ala	Leu	Ala	Ser
65					70					75				80	
Leu	Ile														

<210> 10589

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10589

Met	Pro	Asp	Ala	Ser	Asp	Tyr	Phe	Ser	Cys	Asn	His	Ile	Phe	Gly	Phe
1				5					10					15	
Thr	Val	Arg	Lys	Val	Gly	Asp	Leu	Asp	Thr	Val	Ile	Val	Ser	Asn	Pro
		20						25					30		
Ile	Ile	Ser	Leu	Phe	His	Asn	Ser	Pro	Leu	Lys	Leu	Phe	His	Leu	Glu
		35					40				45				
Val	Tyr	Met	Thr	Ile	Gln	Asn	Pro	Val	Val	Asp	Lys	Thr	Phe	Phe	
	50					55					60				

<210> 10590

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10590

Lys	Thr	Asn	Ile	Ile	Lys	Met	Ile	Gln	Ser	Gln	Leu	Thr	Gln	Val	Ile
1				5					10					15	

Phe Trp Leu Gly Leu Ile Ala Ala Leu Pro Ala Phe Tyr Arg Phe Val
 20 25 30
 Tyr Ala Gly Ser Ser Leu Ile Trp His Lys Tyr Phe Pro Val Lys Lys
 35 40 45
 Ile Glu Ile Gln Leu Val Asn Glu Asp Lys Ala Leu Ile Glu Asn Ile
 50 55 60
 Val Leu Asp Leu Asp Lys Gln Asp Ala Lys Arg Val Ile Glu Leu Ile
 65 70 75 80
 Glu Ser Ser Arg Lys Lys Gly Lys Val Arg
 85 90

<210> 10591

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 10591

Asn Arg Lys Val Met Glu Lys Thr Thr Ser Phe Lys Val Phe Tyr Asp
 1 5 10 15
 Ala Asp Asp Lys Glu Leu Ser Lys His Ala Ile Asp Ala Glu Thr Leu
 20 25 30
 Gly Asn Ser Ile Leu Ser Met Ala Asn Leu Ile Ser Lys Ala Asp Asp
 35 40 45
 Leu Ile Asn Glu Gly Gly Lys Ser Val Lys Val Leu Phe Ser Ala Pro
 50 55 60
 Val Glu Lys Gly Ser Val Gly Val Ala Tyr Thr Val Val Gln Leu Leu
 65 70 75 80
 Pro Asp Ala Ile Asp Val Leu Lys Thr Ile Gly Ile Val Gly Ala Val
 85 90 95
 Gly Thr Ala Val His Ala Ser Ala Leu Ser Leu Ile Arg His Leu Gly
 100 105 110
 Ser Lys Lys Val Ile Ser Val Thr Arg His Thr Gly Lys Lys Lys Gly
 115 120 125
 Ile Ala Thr Leu Glu Leu Asp Gly Glu Asp Ile Glu Cys Ser Ala Pro
 130 135 140
 Val Ala Ala Leu Val Thr Asp Pro Ala Ile Arg Asn Ala Leu Ile Ala
 145 150 155 160
 Val Val Gln Lys Pro Leu Glu Gly Lys Asp Ser Pro Val Phe Lys Ile
 165 170 175
 Val Asp Ser Lys Gly Lys Glu Ile Val Arg Leu Glu Gly Asp Glu Thr
 180 185 190
 Glu Glu Ile Lys Pro Val Pro Lys Gly Thr Leu Leu Glu Lys Asp Val
 195 200 205
 Glu Ile Lys Glu Val Asn Val Lys Phe Thr Gln Val Asn Phe His Ser
 210 215 220
 Glu Lys Gly Trp Arg Met Glu Tyr Lys Asn Glu Glu His Ser Val Leu
 225 230 235 240
 Leu Thr Asp Tyr Glu Phe Leu Ala Lys Val Arg Gly Ala Glu Gly Thr
 245 250 255
 Ile Thr Ser Glu Asp Leu Phe Ser Val Ser Leu Glu Ile Thr Lys Thr
 260 265 270
 Thr Ser Ala Arg Ala Ser Ala Glu Lys Tyr Val Ile Lys Lys Val Ile
 275 280 285
 Arg His Arg Val Ala Gln Gly Lys Lys Leu Ile
 290 295 300

<210> 10592

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10592

Thr Phe Phe Leu Phe Trp Tyr Ser Trp Phe Ile Ser Pro Val Asp Phe
 1 5 10 15
 Gln Cys Arg Thr Pro Leu Ala Asn Leu Pro Thr Arg Cys Phe Gly Lys
 20 25 30
 Ile Leu Val Ala Leu Ala Val Met Leu Ala Gly Cys Ala Ile Gln Phe
 35 40 45
 Asp Gln Met Ala Tyr Thr Ala Leu Asn Ser Met Asn Val Val Leu Trp
 50 55 60
 His
 65

<210> 10593

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10593

Ser Asn Pro His Thr Glu Glu Ile Ala Met Lys Glu Gly Phe Tyr Trp
 1 5 10 15
 Ile Gln His Asn Gly Leu Val Gln Val Ala Tyr Tyr Thr Asp Gly Ile
 20 25 30
 Thr Glu Asp Leu Glu Thr Gly Gln Thr Ile Thr Gly Val Trp His Leu
 35 40 45
 Thr Arg Gly Asp Asp Ile Cys His Asn Gly Glu Ala Glu Val Ile Glu
 50 55 60
 Gly Pro Leu Ser Ala Pro Leu Lys
 65 70

<210> 10594

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10594

Glu Asp Ser Gln Gln Tyr Glu Gly Gly Pro Met Ser Asp Pro Phe Ser
 1 5 10 15
 Gly Thr Gly Leu Ala Gly Leu Ala Leu Thr Gly Ala Ser Val Tyr Gly
 20 25 30
 Leu Leu Thr Gly Thr Asp Tyr Gly Val Val Phe Gly Ala Phe Ala Gly
 35 40 45
 Ala Val Phe Tyr Ile Ala Thr Ala Ala Asp Leu Ser Val Leu Arg Arg
 50 55 60
 Leu Ala Tyr Phe Phe Val Ser Tyr Ile Val Gly Ile Leu Cys Ser Gly
 65 70 75 80
 Leu Leu Gly Ser Lys Leu Thr Ser Trp Thr Gly Tyr Thr Glu Lys Pro
 85 90 95
 Leu Asp Ala Ile Gly Ala Val Ile Ala Ser Ala Leu Ala Val Gln Ile
 100 105 110
 Leu Thr Phe Leu Asn Lys Gln Asp Ile Gly Ser Leu Val Ala Leu Ile
 115 120 125
 Thr Arg Arg Gly Gly Ser Gly Gly Thr Lys
 130 135

<210> 10595

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10595

Arg Ala Gly Glu Val Gln Val Val Leu Asn Asp Pro Thr Ala Thr Ile

1				5					10				15				
Asn	Ala	Leu	Leu	Cys	Ala	Gly	Val	Val	Ile	Thr	Leu	Met	Phe	Tyr	Arg		
			20					25					30				
Arg	Gly	Asp	Ser	Arg	His	Arg	Pro	Trp	Ile	Ser	Arg	Leu	Ala	Trp	Leu		
		35					40					45					
Ile	Thr	Val	Thr	Tyr	Ser	Ala	Val	Pro	Leu	Ala	Tyr	Leu	Cys	Gly	Ile		
	50					55					60						
Tyr	Pro	His	Ser	Ser	Trp	Ala	Thr	Ile	Ala	Ala	Asn	Ile	Ile	Phe	Leu		
65					70					75					80		
Ser	Val	Leu	Val	Ala	Val	Lys	Gly	Asn	Val	Ala	Cys	Leu	Val	Val	Leu		
				85					90					95			

<210> 10596

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10596

Arg	Met	Asn	Ser	Leu	Asn	Arg	Leu	Arg	Pro	Ala	Lys	Gln	Phe	Arg	Cys		
1				5				10					15				
Val	Pro	Leu	Val	Gly	Lys	Asp	Ser	Pro	Phe	Gly	Tyr	Val	Glu	Arg	Leu		
			20					25					30				
Asn	Asn	Gln	Ala	Asp	Glu	Asn	Asn	Tyr	Gln	Pro	Val	Asn	Ala	Met	Val		
		35				40						45					
Glu	Ala	Phe	Ala	Leu	Met	Asn	Glu	Lys	Gly	Arg	Glu	Glu	Trp	Leu	Lys		
	50					55					60						
Leu	Ile	Gly	Asp	Ser	Glu	Thr	Thr	Glu	Ala	Ser	Pro	Ser	Thr	Ser	Ser		
65					70				75						80		
Asp	Gly	Ser	Pro	Arg	Pro	Asp	Ala	Leu	Tyr	Thr	Phe	Ala	Lys	Gly	Thr		
				85					90					95			
Ile	Met	Ser	Ala	Ser	Ala	Leu	Leu	Ser	Asn	Ser	Ser	Val	Asn	Leu	Gln		
			100					105					110				

Ser

<210> 10597

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 10597

Arg	Thr	Gly	Arg	Ile	Thr	Val	Met	Asn	Asn	Ser	Gln	Arg	Gln	Leu	Arg		
1				5				10					15				
Leu	Leu	Asn	Leu	Val	Arg	Lys	Leu	Leu	Lys	Leu	Gly	Arg	Ser	Asn	Ser		
			20					25					30				
Asn	Ala	His	Glu	Ala	Gly	Leu	Ala	Leu	Gln	Arg	Ala	Gln	Lys	Leu	Met		
		35				40						45					
Ala	Arg	Tyr	Gly	Ile	Ser	Glu	Leu	Asp	Ala	Gly	Leu	Thr	Ser	Val	Arg		
	50					55					60						
Glu	Ala	Ser	Ser	Arg	Thr	Ala	Pro	Ser	Asp	Ala	Glu	Lys	Val	Pro	Glu		
65				70					75						80		
Trp	Met	Val	Thr	Leu	Val	Arg	Gly	Val	Cys	His	Ala	Phe	Gly	Cys	Arg		
				85					90					95			
Ala	Tyr	Tyr	Ser	Trp	Arg	Gln	Thr	Ser	Ala	Gly	Tyr	Arg	Arg	Ser	Val		
			100					105					110				
Thr	Phe	Tyr	Gly	Phe	Ser	Glu	Lys	Pro	Glu	Ile	Ala	Ala	Tyr	Ala	Phe		
		115					120					125					
Asp	Val	Leu	Thr	Arg	Gln	Leu	Lys	Asp	Ala	Thr	Asn	Ser	Tyr	Leu	Lys		
	130					135					140						
Thr	Gln	Ser	Lys	Arg	Leu	Lys	Leu	Ala	Thr	Arg	Arg	Ala	Arg	Ala	Glu		
145					150				155						160		

Gln Phe Arg Asp Gly Trp Val Cys Gly Val Arg Glu Val Ile Ser Ala
 165 170 175
 Thr Asp Ile Ser Glu Glu Gln Gln Val Met Ser His Trp Leu Glu
 180 185 190
 Ser Arg Ser Met Lys Thr Val Thr Thr Arg Glu Leu Lys Ala Cys Arg
 195 200 205
 Gly Ala Asp Thr Ala Arg Tyr Gln Gly Tyr Glu Ala Gly Gln Asn Ala
 210 215 220
 Arg Leu His Gln Gly Val Ser Gly Arg Gly Pro Ala Ala Ile Gly Tyr
 225 230 235 240
 Arg Gln Asp

<210> 10598

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10598

Gly Gly Met Met Asn Ser Leu Ser Gln Ala Ala Asn Gly Leu Leu Met
 1 5 10 15
 Gln Leu Val Met Asp Leu Arg Ser Gly Tyr Leu Arg Arg Cys Glu Ser
 20 25 30
 Leu Gly Leu Asn Arg Glu Glu Met Gln Met Leu Gln Gly Leu Ser Leu
 35 40 45
 Glu Glu Leu His Tyr Leu Ser Gly Ser Glu Val Ser Ile Ile Ser Val
 50 55 60
 Gly Ile Asn His Gly Asn Leu Val Arg Met Leu Gln Gln Ala Arg Thr
 65 70 75 80
 Glu Gln Lys Arg Leu Gln Arg Ile Asp Arg Ala Leu Ala Leu Gly Gly
 85 90 95
 Ser Ile Glu Leu Met Ala Asn Tyr Phe Gly Leu Ser Ser Thr Asp Val
 100 105 110
 Ala Ala Arg Arg Arg Ile Ala Gly Ile Asp Val Arg Pro Gly Arg Gly
 115 120 125
 Asn Ala Leu Gly Asp Glu Glu Asn Ala Ala Leu Trp Arg Gln Trp Gln
 130 135 140
 Lys Ser Asp Val Glu Asp Ala Glu Ser Ala Asp Gly Leu Asp Val Met
 145 150 155 160
 Met Leu Ala Ala Glu Gln Met Asn Val Ser Leu Thr Ser Val Trp His
 165 170 175
 Ala Val Arg Gly Trp His Lys Thr Arg Gln Pro Ser Pro Ala Arg Thr
 180 185 190
 Pro Val Arg Lys Thr Ala
 195

<210> 10599

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10599

Arg Ala Gly Arg Asp Asp Ala Gly Cys Arg Thr Asp Glu Arg Leu Ala
 1 5 10 15
 Asp Val Gly Leu Ala Cys Gly Pro Trp Leu Ala Gln Asp Pro Ala Ala
 20 25 30
 Phe Ser Gly Thr Asn Ala Gly Lys Glu Asp Gly Met Lys Tyr Arg Met
 35 40 45
 Val Ala Pro Gly Leu Arg Ala Pro His Gly Thr Pro Pro Gln Cys Cys
 50 55 60
 Gln Lys Ala Leu Arg Gln Val Arg Arg Phe Arg Gln Gly Ala Arg Asn

65					70					75					80
Tyr	Thr	Arg	Leu	Asp	Glu	Lys	Gly	Cys	Gly	Tyr	Tyr	Lys	Ile	Asp	Leu
				85					90					95	
Gly	Pro	Phe	Trp	Arg	Leu	Leu	Ser	Arg	Asn	Glu	Gly	Arg	Thr	Trp	Leu
			100					105					110		
Leu	Leu	Ser	His	Glu	Arg	Tyr	Asn	Ser	Ala	Ile	Arg	Lys			
		115					120					125			

<210> 10600

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10600

Gln	Pro	Arg	Val	Glu	Gln	Gln	Pro	Ala	Gly	Asn	Gly	Ile	Met	His	Ile
1				5					10					15	
Ser	Gly	Lys	Gln	Gln	Ala	Val	Thr	Tyr	Pro	Ala	Ile	Ile	Pro	Pro	Gly
			20					25					30		
Thr	Gly	Arg	Lys	Ala	Gly	Ile	His	Phe	Ile	Gln	Arg	Ile	Ser	Asn	Gln
		35					40					45			
Ala	Phe	Cys	Arg	Gln	Thr	His	Tyr	Phe	Ser	Phe	Ser	Ala	Ala	Ile	Thr
	50					55					60				
Ala	Val	Leu	Asn	Cys	Gln	Tyr	Ala								
65					70										

<210> 10601

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10601

Glu	Ser	Arg	Arg	Ala	Val	Ser	Ala	Pro	Ala	Pro	Pro	Leu	Arg	Leu	Ala
1				5					10					15	
Ala	Ser	Ile	His	Gly	Gln	Ser	Phe	Ser	Leu	Gln	Ala	Leu	Glu	Lys	His
			20					25					30		
Ala	Ala	Gln	Asp	Ser	Thr	Phe	Ser	Ser	Asn	Met	Gly	Met	Arg	Val	Gly
		35					40					45			
Phe	Tyr	Glu	Gly	Ala	Ser	Glu	Lys	Ser	Arg	Cys	Gly	Arg	Thr	Gly	Gln
	50					55					60				
Arg	Asp	Ala	Tyr	Phe	Met	Leu	Leu	Ala	Arg	Val	Ser	Thr	Leu	Trp	Arg
65					70					75					80
Asn	Ala	Leu	Thr												

<210> 10602

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10602

Asn	Leu	Phe	Ala	Phe	Val	Ile	Glu	Met	Ser	Phe	Gln	Pro	Asp	Asp	Trp
1				5					10					15	
Leu	Phe	Arg	His	Cys	Lys	Ser	Phe	Val	Arg	Tyr	Ser	Val	Pro	Ala	Phe
			20					25					30		
Ile	Ser	Glu	Thr	Phe	Phe	Asn	Asn	Ala	Gly	Tyr	Asp	Arg	Val	Val	Phe
		35					40					45			
Ser	Ile	Phe	Arg	Ser	Trp	His	Lys	Asp	Phe	Lys	Leu	Cys	Arg	Cys	Ile
	50					55					60				
Arg	Leu	Lys	Gln	Asn	Gly	Ile	Glu	Thr	Arg	Arg	Ile	Lys	Gln	Ser	Ala
65					70					75					80
Phe	Arg	Ile	Asn	Glu	Leu	Asn	Pro	Gly	Ala	Phe	Val	Val	Arg	Ile	Leu

				85					90				95				
Lys	Leu	Leu	Ser	Lys	Val	Ile	Ala	Lys	Val	Asn	Tyr	Leu	Thr	Gly	Met		
			100					105					110				
Leu	Ile	Arg	Asp	Cys	Thr	Asp	Gln	Val	Lys	Thr	Met	Arg	Gly	His	Thr		
		115					120					125					
Gln	Phe	Pro	Gly	Ser	Gly	Leu	Gly	Ile	Asp	Arg	Pro	Gly	Val	Lys			
	130					135					140						

<210> 10603

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10603

Ile	Arg	Leu	Phe	Gln	Arg	Ser	Ser	Asp	Leu	Val	Val	Arg	Glu	Asn	Asp		
1				5					10					15			
Ala	Val	Lys	Ser	Asn	Phe	Tyr	Thr	Ala	Ile	Gln	Lys	Lys	Val	Ser	Ile		
		20						25					30				
Ser	His	Ile	Thr	Asn	Asn	Pro	Ala	Tyr	Phe	Arg	Met	Cys	Val	Pro	Leu		
		35					40					45					
Asp	Val	Lys	Val	Lys	Pro	Leu	Arg	Gln	Thr	Arg	Arg	Pro	Leu	Asn	Ser		
	50					55					60						
Ser	Leu	Ser	His	Thr	Leu	Arg	Cys	Phe	Gln	Pro	Thr	Thr	Arg	Asn	Ile		
65					70					75					80		
Ala	Arg	Asn	Val	Thr	Asp	Asn	Pro										
				85													

<210> 10604

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10604

Ser	Gly	Glu	Gln	Pro	Met	Lys	Ile	Lys	Leu	Ala	Leu	Val	Ile	Ala	Phe		
1				5					10					15			
Ala	Gly	Phe	Ser	Ala	Gly	Val	Ser	Ala	Glu	Ile	Ala	Glu	Phe	Ser	Phe		
		20						25					30				
Lys	Asp	Thr	Leu	Asn	Val	Lys	Lys	Thr	Val	Ser	Pro	Ala	Ser	Val	Trp		
		35					40					45					
Ile	Asn	Pro	Val	Thr	Ser	Phe	Asp	Val	Ala	Gly	Leu	Phe	Phe	Arg	Ser		
	50					55					60						
Gly	Pro	Leu	Tyr	Tyr	Ala	Gln	Ser	Ala	Glu	Lys							
65					70					75							

<210> 10605

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10605

Pro	Val	Asp	Ser	Phe	Cys	His	Asp	Tyr	Ser	Arg	Thr	Asn	Arg	Arg	Asn		
1				5					10					15			
His	Ile	Met	Thr	Lys	Tyr	Tyr	Asp	Arg	Ser	Gly	Ile	Glu	Ile	Ser	Ser		
		20						25					30				
Ala	Lys	Ile	Arg	Cys	Val	Asp	Ser	Val	Lys	Gly	Thr	Ala	Glu	Tyr	Thr		
		35					40					45					
Phe	Arg	Ile	Val	Cys	Asp	Lys	Cys	Asn	Gly	Arg	Gly	Glu	Arg	Lys	His		
	50					55					60						
Phe	Tyr	Arg	Ser	Arg	Cys	Met	Ala	Cys	Lys	Ala	Thr	Gly	Tyr	Ser	Leu		
65					70					75					80		
Glu	Thr	Thr	Arg	Thr	Ala	Tyr	Thr	Leu	Asn	Ala	Leu	Tyr	Arg	Ile	Asn		

				85				90					95			
Ala	Gln	Ala	Ala	Arg	Lys	Val	Ser	Ala	Ser	Leu	Gln	Asp	Glu	Arg	Leu	
			100					105					110			
Arg	Thr	Glu	Ser	Ala	His	Ser	Ser	Ala	Phe	Thr	Ala	Trp	Cys	Arg	Ser	
		115					120					125				
His	Gln	Lys	Met	Val	Asp	Ala	Ile	Thr	Gln	Gln	Ser	Ser	Ser	Asn	Asn	
	130					135					140					
Phe	Leu	Glu	Ser	Leu	Lys	Ser	Ser	Leu	Thr	His	Gln	Arg	Gln	Leu	Ser	
145					150					155					160	
Asp	Lys	Gln	Leu	Ala	Val	Ala	Ala	Arg	Ile	Leu	Gly	Ile	His			
				165					170					175		

<210> 10606

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 10606

Ile	Ala	His	Pro	Leu	Arg	Leu	Lys	Met	Lys	Leu	Phe	Ser	Ile	Ser	Ser	
1				5					10					15		
Arg	Asp	Thr	Ser	Met	Asp	Ala	Met	Phe	Tyr	Ile	Gln	Ala	Ser	Thr	Lys	
			20					25					30			
Gln	Gln	Ala	Ser	Tyr	Ile	Phe	Ser	Thr	Leu	Ser	Pro	Lys	Pro	Ile	Ala	
		35					40					45				
Asn	Cys	Gln	Leu	Thr	Asp	Leu	Gln	Asn	Glu	Thr	Val	Val	Pro	Ser	Ile	
	50					55					60					
Ser	Pro	Ile	Ser	Leu	Ser	Leu	Asn	Pro	Trp	Ser	Ile	Asn	Ser	Gln	Ser	
65					70					75				80		
Arg	Thr	Arg	Glu	Leu	Arg	Met	Ala	Thr	His	Gly	Leu	Asn	Leu	Ile	Cys	
				85					90					95		
Ala	Val	Thr	Asp	Glu	His	Thr	Arg	Gln	Ile	Val	Asp	Phe	Cys	Asp	Asn	
			100					105					110			
Leu	Gly	Gln	Gln	Leu	Lys	Asp	Pro	Asp	Asp	Lys	Ser	Ala	Trp	Val	Lys	
		115					120					125				
Leu	Ile	Asn	Ser	Glu	Cys	Ala	Leu	Leu	Asn	Ser	Pro	Arg	Leu	Tyr	Pro	
	130					135					140					
Val	Leu	Leu	Glu	Pro	Asp	Thr	Pro	Ala	Gln	Phe	Glu	Ile	Phe	Val	Pro	
145					150					155					160	
Ala	Pro	Glu	Asp	Gly	Glu	His	Asp	Thr	Val	Ile	Ala	Ser	Val	Val	Lys	
				165					170					175		
Glu	Cys	Phe	Gly	Asp	Glu	Cys	Arg	Tyr	Arg	Val	Thr	Asp	Lys	Ala	Phe	
		180						185					190			
Ala	Met	Ser	Glu	Lys	Pro	Val	Ile	Arg	Leu	Glu	Ala	His	Phe	Asn	Asp	
		195					200					205				
Lys	Arg	Glu	Lys	Val	Leu	Glu	Leu	Thr	Phe	Ser	Cys	Phe	Asn	Leu	Ser	
	210					215					220					
Leu	Ser	Ala	Ser	Val	His	Glu	Asn	Gln	Leu	Arg	Gln	Ile	Leu	Leu	Leu	
225					230						235				240	
Cys	Glu	Asp	Phe	Gly	Val	Arg	Leu	Gln	Gly	Arg	Ala	Gly	Ala	Ser	Cys	
			245						250					255		
His	Val	Asn	Met	Arg	Ser	Ala	Tyr	Arg	Arg	Leu	Ala	His	Val	Gly	Thr	
		260						265					270			
Gly	Ser	Arg	Pro	Gly	Asp	Asp	Ser	Asp	Val	Arg	Val	Tyr	Thr	Ser	Leu	
	275						280					285				
Lys	Glu	Glu	Lys	Asp	Val	Lys	Arg	Leu	Leu	Asp	Lys	Ser	Thr	Arg	Gly	
	290					295					300					
Ser	Glu	Leu	Val	Pro	Ala	Arg	His	Gly	Gln	Gln	Phe	Asn	Gly	Val	Leu	
305					310					315					320	
Val	Asn	Ala	Thr	Pro	Ala	Ser	Ala	Thr	Thr	Gly	Phe	Ile	Tyr	Leu	Ser	
				325					330					335		
His	Asp	Phe	Pro	Glu	Gly	Gln	Phe	Met	Met	Thr	Ala	Glu	Val	Leu	His	

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<210> 10607
<211> 94
<212> PRT
<213> Enterobacter cloacae
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<210> 10608
<211> 147
<212> PRT
<213> Enterobacter cloacae
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```
<210> 10609
<211> 238
<212> PRT
<213> Enterobacter cloacae
```

<400> 10609

```

Ile Ile Lys Glu Ser Thr Val Ala Asp Asn Tyr Thr Gln Ala Ser Phe
1      5      10      15
Ile Ile Pro Cys Thr Gln Glu Gln Ala Lys Met Ala Gln Glu Ala Ile
20      25      30
Thr Phe Val Thr Glu Ala Glu Ile Ala Glu Gly Glu Arg Leu Leu Asp
35      40      45
Lys Pro Leu Thr Asp Cys Ser Leu Thr Glu Lys Leu Ile Leu Ser Ile
50      55      60
Ile Glu Asn His Pro Glu Tyr Asp Pro Ser Glu Pro Ser Phe Gly Gln
65      70      75      80
Pro Ser Cys Pro Asp Cys Asn Tyr Glu Leu Leu Phe Ala Thr Glu Val
85      90      95
Thr Ser Ser Gly Leu Ala Val Phe His Gly Glu Thr Ile Asp Leu Asp
100     105     110
His Ala Ile Cys Leu Thr Thr Ala Val Leu Ser Val Phe Asp Leu Ser
115     120     125
Glu Met Val Thr Ile Thr Ala Ala Phe Thr Cys Ser Lys Ser Arg Thr
130     135     140
Asp Glu Phe Gly Gly Met Thr Ile Leu Val Thr Lys Asp Thr His Tyr
145     150     155     160
Tyr Gln Asp Gly Cys Gln Phe Ser Arg Leu Met Asn Glu Ala His Lys
165     170     175
Ala Gly Ile Gln Tyr Ala Leu Cys Lys Val Thr His Tyr His Gly Glu
180     185     190
Ser Ser Tyr Val Ala Ser Tyr Val Leu Ser Cys Asp Val Ala Asp Ser
195     200     205
Ala Gln Glu Val Val Asn Lys Arg Leu Lys Ala Cys Ala Gly Lys Glu
210     215     220
Pro Glu Glu Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg Tyr
225     230     235

```

<210> 10610

<211> 545

<212> PRT

<213> Enterobacter cloacae

<400> 10610

```

Arg Ala Leu Thr Leu Pro Val Tyr Phe Ser Gly Leu Asp Arg Tyr Ile
1      5      10      15
Thr Leu Ser Leu Leu Lys Ser Asp Gly Ser Leu Ile Trp Ser Thr Lys
20      25      30
Ser Ser Leu Val Thr Val Asp Asp Arg Thr Thr Ser Ser Thr Gly Phe
35      40      45
Asp Tyr Tyr Gly Lys Thr Leu Thr Val Pro Ala Met Gly Glu Asp Ser
50      55      60
Phe Thr Leu Arg Glu Val Ile Thr Asp Leu Gln Gly Lys Glu Val Ser
65      70      75      80
Arg Gln Asp Tyr Pro Leu Ala Ile Asp Arg Thr Pro Pro Ala Thr Gly
85      90      95
Thr Ile Ser Tyr Thr Arg Asn Gly Trp Asn Phe Gly Ser Glu Ala Ile
100     105     110
Phe Thr Ser Val Pro Ala Gly Met Gln Tyr Ala Ser Val Gln Ala Leu
115     120     125
Val Phe Asn Gly Leu Ser Asp Lys Gly Ser Gly Leu Ala Asn Ala Glu
130     135     140
Tyr Phe Ile Thr Asp Ala Ala Gly Val Glu Arg Lys Lys Pro Ala Glu
145     150     155     160
Ile Asn Thr Val Glu Gly Ser Val Thr Val Gln Val Ala Asp Ala Ser
165     170     175
Ser Asn Ala Leu Ala Pro Glu Asn Arg Ser Glu Tyr Lys Val Gly Ile

```


545

<400> 10611

Asn	Ala	Ser	Val	Leu	His	Pro	Ala	Phe	Asn	Glu	Gly	His	Trp	Leu	Phe
1				5					10					15	
Ile	Ala	Glu	Gln	Asp	Asn	Arg	Tyr	Ile	Glu	Val	Val	Cys	Ile	Leu	Ser
			20					25					30		
Leu	Ala	Ser	Glu	Ser	Gly	Glu	Gln	His	Ile	Asp	Val	Phe	Ile	Asn	Met
		35					40					45			
Phe	Glu	Asp	Pro	Ile	Asp	Asp	Val	Ile	Ser	Arg	Asn	Ile	Glu	Thr	Lys

50		55		60
Thr Phe Ala Thr Leu Tyr Lys Tyr Ile Glu Arg Ile Pro Phe Thr Pro				
65		70		75
Gly Val Lys Lys Glu Phe Leu Ser Ser Ile Glu Asn Ile Asn Phe Ser				
	85		90	95

<210> 10612

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10612

Arg Trp Thr Asp Met Lys Ser Asp Thr Glu Met Val Ser Pro Ile Glu				
1	5		10	15
Leu His Ile Gly Asp His Val Gln Arg His Gly Ala Leu Phe Glu Val				
	20		25	30
Met His Ile Val Glu Ser Glu Cys Asp Ile Pro Gly Gly Ile Arg Val				
	35		40	45
Ala Ala Cys Ile Ser Arg Val Ile Gly Asp Val Thr Gly Asn Ile Pro				
	50		55	60
Arg Gly Trp Leu Glu Thr Pro Lys Arg Met Ala Glu Arg Gly Val Lys				
65	70		75	80
Trp Ala Thr Ser Leu Pro Glu Gly Leu Tyr Phe Asn Ile Gln Gly Asn				
	85		90	95
Ala His Ala Lys Val Ser Arg Val Ile Arg Asn Val Thr Asn				
	100		105	110

<210> 10613

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 10613

Leu Ser Val Lys Ala Ile Ile Lys Pro Lys Thr Pro Leu Ser His Thr				
1	5		10	15
Leu Val Tyr Arg Thr Gly Ile Ile Arg Leu Leu Ala Cys Leu Pro Arg				
	20		25	30
Ile Leu Val Gly Asn Ser Gly Thr Lys Pro Leu Met Ala Pro Leu Lys				
	35		40	45
Ile His Ser Thr Leu Pro Val Ile Ala Phe Thr Phe Asn Gly Ala Asp				
	50		55	60
Ala Glu Arg Lys Leu Val Lys Gly Leu Glu Asn Leu Arg Ile Ser Val				
65	70		75	80
Thr Asp Ala Ser Gly Asp Ala Ser Leu Ile Ser Leu Gln Leu Ala Gly				
	85		90	95
Gly Pro Asn Ser Glu Lys Val Thr Leu Ala Phe Thr Pro Leu Ser Lys				
	100		105	110
Asp Val Phe Ile Pro Glu Tyr Pro Arg Ile Phe Pro Asn Thr Asp Glu				
	115		120	125
Ser Gly Gln Met Tyr His Leu Glu Ala Leu Ala Ile Asp Glu Ser Gly				
	130		135	140
Asn Arg Thr Thr Lys Thr Leu Asn Phe Thr Tyr Gln Pro Ala Asn Leu				
145	150		155	160
Ile Met Leu Asp Asn Leu Lys Thr Leu Ala Thr Ala Val Ala Leu Lys				
	165		170	175
Ala Thr Asp Asn Thr Pro Leu Ala Ile Ile Arg Thr Ser Val Leu Arg				
	180		185	190
Arg Gln Asp Gly Ser Ile Ile Thr Gly Gln Leu Asn Gly Thr Leu Thr				
	195		200	205

Val	Gln	Lys	Asn	Ala	Gln	Phe	Gly	Val	Thr	Val	Ala	Gly	Val	Thr	Val
210						215					220				
Gln	Pro	Gly	Glu	Thr	Lys	Ser	Leu	Ser	Leu	Asp	Leu	Gly	Asn	Gly	Glu
225					230					235					240
Glu	Arg	Thr	Tyr	Pro	Val	Thr	Pro	Ala	Val	Ser	Gly	Gln	Ser	Gly	Thr
			245						250					255	
Ala	Thr	Phe	Thr	Ile	Glu	Phe	Pro	Gln	Thr						
			260					265							

<210> 10614

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10614

His	Glu	Tyr	Glu	Arg	Ser	Arg	Val	Met	Ser	Asn	Asn	Thr	Glu	Val	Ile
1				5				10						15	
Ser	Cys	Asp	Leu	Phe	Ser	Thr	Leu	Ser	Ser	Leu	Asn	Phe	Ser	Thr	Glu
		20						25					30		
Asp	Ile	Thr	Gly	Leu	Thr	Pro	Ala	Asn	Phe	Arg	Lys	Gly	Ala	Phe	Leu
	35						40					45			
His	Ala	Lys	Ile	Ser	Ala	Ser	Gln	Ala	Thr	Arg	Ala	Thr	Asp	Ile	Ser
	50					55					60				
Ile	Gln	Leu	Leu	Thr	Asp	Arg	Val	Ser	Gly	Glu	Met	Asn	Tyr	Val	Ile
65					70					75					80
Val	Ile	Gly	Arg	His	Glu	Gly	Leu	Leu	Gln	Ser	Glu	Ala	Ile	Asp	Pro
				85					90					95	
Asn	Ala	Asp	Lys	Gln	Tyr	Arg	Glu	Asn	Arg	Tyr	Ser	Arg	His	Phe	Ile
			100					105					110		
Ser	Val	Thr	Asp	Ala	Asn	Thr	Lys	Ala	Leu	Lys	Lys	Thr	Cys	Lys	Val
		115					120					125			
Met	Lys	Thr	Tyr	Ile	Lys	Glu	Gln	Ala	Phe	Lys	Pro	Asn	Thr	Trp	Gly
	130					135					140				
His	Ser	Phe	Ile	Lys	Gly										
145					150										

<210> 10615

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10615

Val	Gln	Arg	Asn	Asn	Ile	Thr	Gly	Ile	Leu	Val	Ala	Leu	Met	Lys	Ser
1				5				10						15	
Cys	Phe	Ser	Asp	Leu	Pro	Val	Lys	Asp	Gly	Thr	Ser	Gly	Thr	Trp	Lys
			20					25					30		
Leu	Asp	Thr	Phe	Glu	Ile	Thr	Ala	Asp	Lys	Ala	Met	Ser	Leu	Ala	Leu
	35						40					45			
Arg	Ala	Glu	Tyr	Thr	Gly	Asn	Thr	Asp	Glu	Phe	Ile	Pro	Pro	Gly	Arg
	50					55					60				
Tyr	Arg	Arg	Leu	Ser	Asn	Gly	Trp	Asp	Val	Val	Met	Ser	Asn	Thr	Pro
65					70					75					80
Met	Glu	Ile	Arg	Thr	Cys	Gln	Asp	Phe	Leu	Glu	Arg	Ala	Thr	Gly	Arg
				85				90						95	
Val	Leu	Ile	Asn	Gly	Leu	Gly	Leu	Gly	Met	Val	Leu	His	Ala	Ile	Leu
			100					105					110		
Gln	Lys	Glu	Asp	Val	Thr	His	Val	Thr	Val	Ile	Glu	Lys	Glu	Gln	Asp
	115						120					125			
Val	Ile	Asn	Leu	Val	Ala	Ala	Ser	Phe	Ala	Asn	Asp	Pro	Arg	Val	Glu
	130					135					140				
Ile	Ile	His	Ala	Asp	Ala	Met	Met	Tyr	Cys	Pro	Pro	Ala	Gly	Val	Thr

145					150					155				160	
Tyr	Asn	Ala	Cys	Trp	His	Asp	Ile	Trp	Pro	Asp	Phe	Ala	Thr	Ala	Asn
				165					170					175	
Leu	Ser	Gln	Met	Asp	Lys	Leu	Glu	Ile	Lys	Tyr	Arg	Asp	Ile	Cys	Glu
			180					185					190		
Trp	Gln	Gly	Ser	Trp	Gly	Arg	Glu	Glu	Cys	Glu	Gln	Lys	His	Ile	Glu
		195					200					205			
Phe	Gln	Asn	Leu	Gly	Ala	Asp									
	210					215									

<210> 10616

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 10616

Asn	Ser	Gln	Gly	Gly	Ile	Arg	Tyr	Trp	Pro	Ala	Asn	Glu	Leu	Pro	Arg
1				5					10					15	
Trp	Gln	Pro	Cys	Val	Leu	Ala	Arg	Thr	Leu	Ala	Thr	Pro	Phe	Lys	Pro
			20					25					30		
Ala	Ser	Phe	Phe	Leu	Arg	Ala	Thr	Asp	Gly	Glu	Lys	Met	Asn	Leu	Asn
		35					40					45			
Glu	Arg	Ser	Thr	Ser	Ala	Ala	Thr	Pro	Asp	Leu	Ser	Arg	Leu	Tyr	Leu
	50					55					60				
Ile	Ser	Gly	Arg	Ile	Met	Phe	Asp	Asp	Asp	Asp	Gln	Ala	Tyr	Leu	Val
65					70				75					80	
Glu	Ala	Asp	Ser	Pro	Gly	Asp	Ala	Glu	Glu	Ala	Phe	Arg	His	His	Ile
				85				90					95		
Ala	Asp	Ser	Ala	Asp	Asp	Leu	Glu	Lys	Val	Ile	Ile	Val	Ser	Ser	Thr
			100					105					110		
Ser	Phe	Ala	Ser	Ala	His	Ser	Ser	Arg	Val	Ile	Cys	Arg	Pro	Ala	Val
		115					120					125			
Lys															
	130														

<210> 10617

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10617

Asn	Met	Arg	Leu	Thr	Tyr	Glu	His	Gln	Pro	Thr	Phe	Trp	Asp	Phe	Arg
1				5					10					15	
Ser	Thr	Arg	Tyr	Thr	Ser	Phe	Cys	Leu	Ile	Asn	His	Gln	Met	Ile	Asn
			20					25					30		
Glu	Arg	Met	Asn	Thr	Met	Tyr	Thr	Leu	Cys	Ile	Pro	Glu	Asn	Lys	Val
		35					40					45			
Tyr	Met	Ala	Tyr	Tyr	Thr	Asp	Leu	Ser	Ile	Asn	Tyr	Leu	Leu	Asp	Val
	50					55					60				
Tyr	His	Val	Tyr	Leu	Ser	Pro	Tyr	Leu	Ser	Glu	Leu	His	Ser	Leu	
65					70					75					80

<210> 10618

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10618

Cys	Val	Ile	Thr	His	Lys	His	Ile	Thr	Ser	Gly	Val	Ile	Asp	Val	Ser
1				5					10					15	
Thr	His	Lys	Asn	Glu	Arg	Arg	Gly	Asn	Pro	Pro	Phe	Gln	Phe	Arg	Leu

<400> 10619

```
<210> 10620
<211> 99
<212> PRT
<213> Enterobacter cloacae
```

<400> 10620

[illegible]

```
<210> 10621
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

<400> 10621

Ile	Ala	Ile	Asn	Cys	Ser	Ile	Val	Ala	Ile	Asn	Gly	Ile	Leu	Thr	Ile
1				5					10					15	
Ala	Ile	Thr	Gly	Gly	Ile	Met	Thr	Lys	Val	Asn	Val	Lys	Pro	Val	Leu
			20					25					30		
Leu	Asn	Arg	Glu	Gln	Ile	Gln	Ala	Leu	Lys	Thr	Ile	Gln	Glu	Arg	Glu
		35					40					45			
Arg	Gln	Lys	Ser	Gly	Met	Gly	Ile	Ala	Pro	Ser	Ile	His	Ala	Val	Ala

50	55	60	
Arg Lys Val Phe Asp Ala Gly Leu Ser Lys Met Glu Ala Gly Gln			
65	70	75	80

<210> 10622

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10622

Arg Lys Met Ala Met Asn Lys Lys Ala Glu Arg Arg Arg Asp Phe Tyr	
1 5 10 15	
Pro Ala Glu Ser Met Leu Asn Gln Pro Phe Gly Ser Ile Pro Arg Cys	
20 25 30	
Trp Ser Ser Leu Arg Ile Ile Leu Leu Ser His Ala Ala Arg Asp Ser	
35 40 45	
Ser Pro Ser Cys Cys Cys Ala Arg Ser Ile Ile Ser Arg Ser Ser Gly	
50 55 60	
Ser Ser Leu Asn Trp Asn Gly Gly Leu Pro Arg Leu Ser Phe Leu Cys	
65 70 75 80	
Val Asp Thr Ser Ile Thr Pro Asp Val Met Cys Leu Cys Val Met Thr	
85 90 95	
His Tyr Thr Gln Glu Met Lys Lys Thr Thr Pro Arg Ser Ala Gly Thr	
100 105 110	
Leu Ser Gly Arg Leu Thr Lys Thr Leu Val Glu Val Thr Leu Trp Leu	
115 120 125	
Ala Leu Ser Leu Pro Lys His Ala Leu Asn Leu His Gly Val Phe Ser	
130 135 140	
Pro Trp Val Asn Ser Gln Ile Arg Ser Ser Met Leu Leu Leu Pro Pro	
145 150 155 160	
Ser Ala Lys Pro Ala Lys Lys Arg Gln Lys Asp Val Ser Val Phe Trp	
165 170 175	
Arg Val Asp Phe Val Leu Arg Arg Cys Ser Met Phe Asn Leu Gln Thr	
180 185 190	
Leu Thr Ala Lys Ala Arg Glu Leu Arg Gly Asn Val Val Lys Ala Thr	
195 200 205	
Thr Thr Lys Gly Thr Arg Thr Met Thr Pro Val Tyr Glu Arg Glu Glu	
210 215 220	
Gln Arg Lys Leu Arg Glu Arg Ile Gln Gln Thr Gln Pro Asp Trp Val	
225 230 235 240	
Leu Leu Trp Trp Asp Ile Ala Thr Val Thr Gly Trp Arg Thr Ser Asp	
245 250 255	
Val Cys Asn Phe Arg Tyr Ser Cys Ile Asn Trp Glu Thr Gly Ile Ala	
260 265 270	
Thr Ile Ile Val Ala Lys Gln Thr Lys Ala Ala Glu Ala Arg Ala Thr	
275 280 285	
Arg Lys Gly Ile Glu Ile Val Arg Gln Gln Arg Lys Asp Ala Ala Arg	
290 295 300	
Leu Ala Gly Asp His Ile Gly Tyr Met His Trp Asp Ser Val Ser Cys	
305 310 315 320	
Asp Glu Leu Ala Ala Gly Met Thr Glu Glu Glu Gln Ala Ile Val Phe	
325 330 335	
Glu Leu Val Ala Lys Ala Glu Val Lys His Asp Thr Lys Gln Leu Pro	
340 345 350	
Pro Gly Ile Ile Lys Arg Leu Arg Glu Arg Met Glu Arg Asn Leu Ile	
355 360 365	
Gly Asp Asp Leu Val Phe Ser Arg Ser Gln Ile Glu Ser Asn Arg Cys	
370 375 380	
Gln Ser Leu Glu Gly Ser Val Ser Arg Gln Thr Ile Trp Lys Lys Leu	
385 390 395 400	
His Asn Val Met Val Trp Phe Thr Arg Val Val Asn Lys Arg Leu Arg	

				405					410				415				
Leu	Ser	Ala	Tyr	Ser	Ser	Arg	Lys	Ile	Ala	Ala	Phe	Asn	Leu	Met	Ser		
			420					425					430				
Ala	Gly	Gly	Glu	Gln	Gly	Leu	Leu	Val	Ala	Ser	Glu	Met	Leu	Gly	His		
		435					440					445					
Ser	Asn	Pro	Ala	Ile	Thr	Arg	Thr	Tyr	Leu	Gln	Leu	Gly	Ser	Lys	Ala		
	450					455					460						
Ala	Ala	Ile	Gln	Thr	Arg	Leu	Ala	Met	Glu	Val	Asn	Ala					
465					470					475							

<210> 10623

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10623

Thr	Gln	Asn	Glu	Lys	Lys	Ala	Ala	Ile	Ser	Lys	Lys	Leu	Ser	Ala	Ala		
1				5					10					15			
Phe	Val	Asp	Glu	Phe	Tyr	Leu	Trp	Gln	Ala	Gly	Asn	Leu	Ser	Cys	Asp		
		20						25					30				
Ser	Ser	Arg	Leu	Leu	Cys	Pro	Ser	Leu	Arg	Lys	Tyr	Phe	His	His	Phe		
		35					40					45					
Val	Ile	Ala	Ile	Phe	Leu	Leu	Leu	Glu	Phe	Lys	Met	Lys	Arg	Thr	Leu		
	50				55						60						
Asn	Gln	Leu	Thr	Leu	Val	Ile	Gln	Gln	Pro	Leu	Pro	Ala	Asp	Asn	Asn		
65				70					75					80			
Gly	Thr	Ile	Ile	Ala	Ala	Met	Glu	Ser	Arg	His	Val	Asn	Ile	Gln	Ser		
				85				90						95			
Val	Leu	Ile	Ala	Ser	Gln	Arg	Leu	Arg	Gly	Asn	Asp	Pro	Thr	Gly	Glu		
		100						105					110				
Leu	Ala	Ala	Gln	Ile	Arg	His	Gln	Arg	Ile	Ala							
		115					120										

<210> 10624

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10624

Asn	Arg	Arg	Asp	Ala	Ala	Arg	Cys	Val	Arg	Tyr	Cys	Thr	Gly	Ile	Leu		
1				5					10					15			
Met	Ser	Arg	Arg	Lys	Phe	Leu	Ile	Leu	Trp	His	Ile	Tyr	Ala	Phe	Ser		
		20						25					30				
Tyr	Leu	Cys	Ile	Phe	Ile	Ala	Phe	Phe	Ala	Val	Val	Pro	Glu	Val	Lys		
		35					40					45					
Leu	Phe	Asp	Tyr	Leu	Ser	Ile	Lys	Tyr	Gly	Phe	Ile	Asp	Ile	Glu	Arg		
	50					55					60						
Trp	Asp	Ile	Tyr	Tyr	Ser	Ile	Phe	Ala	Met	Ser	Thr	Thr	Val	Ile	Ile		
65				70					75					80			
Asn	Phe	Leu	Phe	Ile	Leu	Leu	Thr	Phe	Arg	Phe	Thr	Ser	Lys	Thr	Lys		
				85				90						95			

Lys Lys

<210> 10625

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10625

Ser	Ile	Asn	Glu	Pro	Glu	Phe	Met	Gly	Val	Ala	Asp	His	His	Glu	Ser		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--	--

```

1           5           10           15
Ser Phe Glu Pro Pro Ser Pro Val Lys Glu Pro Asp Ile His Val Ile
                20                25                30
Leu Asp Gly Lys Glu Arg Ala Asn Val Thr Val Thr Ser Gly Leu Glu
                35                40                45
Val Glu Leu Leu Glu Ile Pro Val Ala Val Ile Ser Met Ile Val Glu
                50                55                60
Pro Leu Ile Val Ala His
65                70

```

<210> 10626

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10626

```

Pro Thr Val Ile Val Lys Arg Asp Ile Asp Lys Ala Leu Ser His Phe
1           5           10           15
Phe Ser Asn Ile Arg Ile Ala Tyr Arg Tyr Lys Lys Ile Gly Glu Pro
                20                25                30
Arg Leu Leu Ser Cys Val Tyr Ala Arg Ile Ile His Ser His Asn Cys
                35                40                45
Val Ala Ser Thr Ile Gly Ser Asp Asp Ile Ser Gly Lys Thr Ile Ser
                50                55                60
Leu Pro Ala Gly Lys Thr Ala His Ile Ser Thr Thr Pro
65                70                75

```

<210> 10627

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10627

```

His Gln Asp Asp Pro Gly Val Ser Glu Asn Thr Lys Ser Thr Arg Trp
1           5           10           15
Tyr His Tyr Arg Leu Ala Ala Gly Lys Leu Tyr Ile Asn Val Glu Phe
                20                25                30
Ala Pro Lys Ser Pro Cys Gln Ser Val Ile Ile Thr Tyr Arg Ile Asn
                35                40                45
Asn Asp Tyr Thr Val Glu Gln Phe Ala Glu Leu Leu Gln Ala Ala
                50                55                60

```

<210> 10628

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 10628

```

Ser Trp Pro Ala Asp Cys Thr Trp Arg Phe Gly Arg Tyr Val Arg Tyr
1           5           10           15
Ser Gly Val Lys Met Ala Glu Ser Glu Thr Asp Gly Ser Ser Asp Val
                20                25                30
Met Met Gly Leu Gly Glu Ser Phe Ile Phe Cys Ile Ser Thr Val Ala
                35                40                45
Tyr Asn Ser Leu Gln Arg Ser Asp Glu Trp Arg Trp Val Glu Gln Thr
                50                55                60
Arg Phe Gly Lys Asn Asp Ser Leu Gln Cys Thr Gly Arg Pro Lys Pro
65                70                75                80
Thr Ile Thr Leu Ala Gly Lys Thr His Ala Leu Phe Leu Asp Gly Ala
                85                90                95
Gly Val Gly Gln Ile Glu Leu Leu Arg Gln Leu Gly Asn Thr Tyr Glu

```



```
<210> 10629
<211> 104
<212> PRT
<213> Enterobacter cloacae
```

Leu 1	Leu	Leu	Arg	Phe 5	Lys	Met	Thr	Asp	Ser 10	Leu	Leu	Glu	Thr	Ile 15	Glu
Ile	Pro	Leu	Ser 20	Arg	Pro	Tyr	Glu	Ile 25	Asp	Gly	Val	Ala	His 30	Asp	Lys
Leu	Thr	Met 35	Phe	Glu	Pro	Lys	Leu 40	Arg	Asp	Lys	Ile	Leu 45	Tyr	Ser	Lys
Asp	Lys 50	Gly	Thr	Glu	Asp 55	Glu	Lys	Ser	Ala	Arg	Met 60	Ile	Ala	Arg	Leu
Leu 65	Asn	Val	Lys	Asp 70	Thr	Asp	Leu	Met	Asn 75	Leu	Pro	Ser	Cys	Asp	Phe 80
Ala	Arg	Leu	Glu	Asp 85	Ala	Phe	Asn	Glu	Met 90	Val	Lys	Asp	Pro	Val 95	Asp
Arg	Asn	Met 100	Lys	Leu	Phe	Ser									

```
<210> 10630
<211> 356
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Tyr	Ala	Ile	Met 5	Gly	Val	Asn	Asp	Ser 10	Arg	Ile	Asn	Thr	Gly 15	Glu
Gln	Pro	Trp	Leu 20	Pro	Asn	Phe	Phe	Ile 25	Ser	Val	Gly	Asp 30	Thr	Asp	Ile
Thr	Glu	Lys 35	Val	Arg	Lys	Gly	Leu 40	Ile	Asn	Ile	Ser	Leu 45	Asp	Asp	Tyr
Gly	Gly 50	Ser	Asn	Lys	Gln	Thr 55	Asp	Gln	Ile	Lys	Val 60	Ala	Ile	Val	Ser
Glu 65	Ser	Leu	Arg	Ile 70	Pro	Ala	Arg	Gly	Val	Lys 75	Val	Thr	Leu	Gly	Leu 80
Gly	Phe	Gly	Thr 85	Gln	Ile	Val	Asn	Lys 90	Gly	Val	Tyr	Val	Val	Asp 95	Gly
Gly	Ser	Ser	Gly 100	Gly	Glu	Pro	Arg	Ile 105	Val	Glu	Phe	Thr	Ala	Lys	Ala
Ala	Pro	Met 115	Asn	Ser	Ala	Lys	Gly 120	Leu	Ser	Thr	Val	Gln	Ser	Lys	Lys
Thr	Arg 130	Ser	Trp	Thr	Gly	Asn 135	Thr	Leu	Gly	Asp	Ile 140	Leu	Ala	Lys	Val
Ala 145	Asn	Asp	Asn	Gly 150	Leu	Thr	Ala	Arg	Val	Ser 155	Ala	Gln	Phe	Ala	Gly 160
Lys	Val	Ile	Glu	Gln 165	Leu	Asp	Gln	Val	Gly 170	Glu	Ser	Asp	Ala	Asn	Leu
Val	Ser	Arg	Leu 180	Ala	Asp	Arg	Phe	Asp 185	Ala	Val	Ser	Lys	Val	Ala	Gly

Gly Tyr Trp Met Phe Leu Pro Arg Gly Ala Gly Glu Ser Ala Ser Gly
 195 200 205
 Lys Pro Leu Lys Gln Tyr Thr Leu Val Arg Thr Gly Asn Ser Gln Trp
 210 215 220
 Asn Tyr Ser Arg Asn Gly Arg Ser Gly Asp Ser Gly Asp Asn Ser Asp
 225 230 235 240
 Gly Ser Lys Asp Thr Ser Thr Phe Val Ile Lys Tyr His Asp Gln Ser
 245 250 255
 Thr Gly Thr Ile Lys Glu Leu Arg Ser Gly Ser Gly Glu Pro Val Ile
 260 265 270
 Glu Ala Pro Phe Val Glu Pro Ser Leu Ala Ala Ala Gln Glu Leu Leu
 275 280 285
 Pro Gly Ala Ser Ser Ser Ser Lys Lys Lys Glu Ile Thr Met Ser His
 290 295 300
 Ser Met Pro Ala Thr Gln Asp Leu Leu Ser Leu Thr Ala Glu Cys Lys
 305 310 315 320
 Ile Thr Thr Lys Gly Phe Gly Pro Asp Glu Asp Arg Ser Trp Thr Ile
 325 330 335
 Asn Thr Leu Asn Met Thr Leu Gly Glu Ser Gly Phe Ser Val Arg Leu
 340 345 350
 Gln Leu Glu
 355

<210> 10631

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10631

Cys His Ser His Ile Ser Ser Leu Leu Ser Ile Lys Asn Asn Val Tyr
 1 5 10 15
 Ile Gly Phe Phe Tyr Gly Arg Arg Trp Phe Lys Arg Arg Phe Met Val
 20 25 30
 Val Gly Asn Pro His Lys Phe Arg Leu Val Tyr Ala Ser Tyr Ala Lys
 35 40 45
 His Glu Arg Asp Ile Phe Phe Tyr Tyr Lys Arg Ser Leu Ser Val Leu
 50 55 60
 Phe
 65

<210> 10632

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10632

Gly Leu Val Ala Glu Gly His Ser Ser Tyr Leu Ile Ile Arg Asn Ile
 1 5 10 15
 Arg Cys Ile Leu Asn Ala Ser Leu Ser Gly Tyr Tyr Asn Pro Leu Glu
 20 25 30
 Ala Arg Val Lys Thr Arg Lys Gly Ser Gln Lys Lys His Ala Phe Asn
 35 40 45
 Leu Leu Ile Glu Cys Arg Lys Gly Leu Ser Lys Val Phe Lys Gly Gly
 50 55 60
 Glu Thr Val Asn Asn Pro Pro Arg Val Pro Ile Asp Thr Gly Gln Thr
 65 70 75 80
 Leu Pro Val Tyr Lys Lys Gly Asn Ala Cys Leu Asn Val
 85 90

<210> 10633

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10633

```

Arg Asn Ser Asn Lys Gln Thr Ala Phe Gln Arg Tyr Ile Leu Arg Ser
1      5      10      15
Val Lys Ile Asp Asp Leu Phe Thr Gly Val Leu Met Ser Leu Pro Ala
      20      25      30
Leu Ile Ala Lys Lys Cys Asp Arg Thr Gln Ile Phe Ser Glu Gln Ile
      35      40      45
Ser Gln Ile Ser Cys Leu Thr Val Leu Phe Val Arg Thr Ala His Pro
      50      55      60
Asn Arg Leu Pro
65

```

<210> 10634

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10634

```

Arg Arg Ala Ser Ala Thr Arg Phe Leu Ser Thr Lys Thr Ser Arg Lys
1      5      10      15
Thr Ala Ser Gly Gly Gly Tyr Val Leu Pro Asp Leu Asn Thr Pro Gln
      20      25      30
Ala Arg Val Ser Glu Ala Pro Ser Gly Lys Lys Lys Ala Gly Asp Ile
      35      40      45
Ala Ser Gly Phe Phe Val Pro Ala Ile Gln Thr Ile Ser Cys Ala Tyr
      50      55      60
Trp Asn Ser Ala Phe Ser Ser Ala Cys Phe Ser Ala Phe Pro Ser Tyr
65      70      75      80

```

<210> 10635

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10635

```

Ser Trp Asn Lys Lys Val Gly Arg Ala Ala Glu Ser Asp Thr Ser Asn
1      5      10      15
Leu Ile Leu Leu Lys Val Asp Val Ser Met Val Asn Asp Trp Gly Glu
      20      25      30
Gln Ser Glu Gln Lys Ala Pro Ser Gly Lys Lys Phe Ala Arg Phe Val
      35      40      45
Pro Lys Lys Ser Ala Phe Cys His Ile Phe Leu Gln Leu Arg Gln Val
      50      55      60
Thr Thr Ser Glu Leu Pro
65      70

```

<210> 10636

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10636

```

Ala Phe Ile Met Gln Lys Phe Pro Phe Lys Gly Ile Asn Leu Cys Leu
1      5      10      15
Asn Glu Gly Ile Asn Gly Thr Leu Ala Thr Pro Arg Arg Arg Lys Asn
      20      25      30

```

Leu Val Leu Arg Gln Phe Val Glu Asp Arg Tyr Glu Lys Thr Gly Val
 35 40 45
 Val Thr Phe Ser Gly Thr Gly Phe Phe Gln Arg His Arg Gly Ile Arg
 50 55 60
 Ser Asn Ser Ala Glu Asn Ser Tyr Trp Asn
 65 70 75

<210> 10637

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10637

Asp Asn Met Glu Arg Asn Ala His Arg Leu Thr Leu His Ser Pro Ala
 1 5 10 15
 Gly Val Ile Leu His Leu Thr Trp Ser Glu Phe Ile Asp Phe Ala Gln
 20 25 30
 Leu Lys Cys Arg Phe Glu Ala Asp Ser Ala Ser Glu Lys Arg Lys Phe
 35 40 45
 Thr Ala Ile Tyr Tyr Asp Ala Thr Thr Met Gln His Pro Gln Ser Lys
 50 55 60
 Pro Leu Thr
 65

<210> 10638

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10638

Phe Asn Gly Leu Thr Gly Asn Met Leu Met Ser Val Asn Thr Glu Thr
 1 5 10 15
 Ala Ser Ala Gln Gly Gln Thr Thr Val Leu Glu Lys Glu Gly Val Tyr
 20 25 30
 Ala Ser Leu Phe Glu Lys Ile Asn Leu Thr Pro Ala Ser Ser Leu Gly
 35 40 45
 Asp Ile Asn Ala Phe Leu Asp Asp Ala Ala Leu Ser Asp Ala Pro Ala
 50 55 60
 Gly Glu Arg Leu Thr Ala Ala Met Gln Val Phe Met Asp Cys Ile Arg
 65 70 75 80
 Lys Ser Gly Tyr Gln Cys Cys Arg Ser Gly Met Ala Asp Asp Ala Cys
 85 90 95
 Ala Arg Phe Gly Ala Asn Ala Ala Gly Arg Val Pro Gly Ser Tyr Thr
 100 105 110

<210> 10639

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10639

Arg Arg Arg Cys Arg Cys Leu Trp Thr Ala Ser Ala Asn Pro Val Thr
 1 5 10 15
 Ser Val Val Ala Val Gly Trp Gln Met Met His Ala Pro Asp Ser Ala
 20 25 30
 Gln Met Gln Leu Ala Ala Ser Leu Ala Pro Ile Pro Glu Gly Leu Ser
 35 40 45
 Thr Ala Gln Leu Gln Ala Leu Gln Gln Thr Ser Pro Pro Pro Glu Pro
 50 55 60

Gly Ile Ser Lys Thr Gln Gln Met Leu Ala Gln Leu Leu His Leu Lys
 65 70 75 80
 Pro Asp Trp Ala Val Ser Tyr Gly Asp Arg Leu Val Gln Gln Ala Leu
 85 90 95
 Thr Leu Trp Pro Glu Glu Ala Lys Ser Leu Ala Gln Gln Trp His Thr
 100 105 110
 Gln Ile Ser Val Ala Gly Leu Ala Glu Ser Asp Leu Asn Gly Trp His
 115 120 125
 Gln Gly Met Thr Gln Leu Gln Gln Leu Thr Asn Arg Leu Asn Ala Leu
 130 135 140
 Asp Glu Gln Lys Gly Lys Tyr Met Thr Val Ser Glu Leu Lys Ser Ala
 145 150 155 160
 Val Phe Ala Met Ser Gln Ser Phe Ser His Thr Val Pro Leu Glu Glu
 165 170 175
 Gln Leu Arg Leu Leu Ser Ile Leu Pro Ala Gly Gln Pro Leu Ser Ala
 180 185 190
 Ala Gln Leu Lys Gln Thr Glu Gln His Leu Gln Gln Leu Ile Ala Ser
 195 200 205
 Tyr Ala Leu Leu Lys His Gln Lys Glu
 210 215

<210> 10640

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10640

Met Gln Arg Gln Ala Met Gly Val Ala Leu His Ile Val Leu Leu Pro
 1 5 10 15
 Phe Phe Glu Leu Leu His Ser Thr Ile Asp Ser Tyr Asp Ala Asp Phe
 20 25 30
 Ile Val Gly Phe Phe Leu Pro Pro Asp Tyr Leu Arg Leu Pro Phe Arg
 35 40 45
 Gly Gln His Pro Asn Leu Glu Glu Lys Met Ser Ile Leu Leu Ala Leu
 50 55 60
 Gln Arg Leu Asn Thr Trp Gln Ser Asp Pro Val Pro Thr Asp Pro Thr
 65 70 75 80
 Pro Ile Pro Asp Pro Val Pro Arg Pro Gln Pro Met Pro Asp Pro Pro
 85 90 95
 Pro Asp Glu Glu Pro Ile Lys Leu Ser His Arg
 100 105

<210> 10641

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 10641

Ser Thr Lys Lys Asn Asn Glu Thr Gly Glu Lys His Gly Val Asp Met
 1 5 10 15
 Ser Ala Arg Glu Arg Phe Phe Lys Lys Val Gln Gln Ser Ile Gly Asp
 20 25 30
 Lys Pro Ile Tyr Val Asn Thr Ala Glu Ala Glu Val Arg Ala Phe Cys
 35 40 45
 Glu Arg Met Glu Asp Leu Ala Gln Gln Ile Ile Thr Trp Phe Glu Gly
 50 55 60
 Ser Gly Ile Glu Ile Phe Leu Ser Lys Lys His Ile Thr Asp Leu Ser
 65 70 75 80
 Thr Val Gly Tyr Ser Leu Ser Ser Gly Ile Cys Arg Tyr Ala Ile Thr
 85 90 95
 Thr Ile Ile Leu Gln Asn Gly Asp Arg Ser Val Thr Ile Met Pro Glu

```
<210> 10642
<211> 103
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10643
<211> 77
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10644
<211> 163
<212> PRT
<213> Enterobacter cloacae
```

<400> 10644

Asn	Met	Ser	Arg	Thr	Lys	Met	Ser	Val	Leu	Phe	Ser	Ile	Val	Leu	Ala
1				5					10					15	
Leu	Ser	Val	Ile	Ala	Leu	Leu	Trp	Ile	Tyr	Phe	Thr	Arg	Thr	Gln	Asp
	~		20					25					30		
Glu	Gly	Phe	Gly	Cys	Gln	Ser	Asp	Thr	Ile	Ser	Trp	Lys	Thr	Tyr	Ser

```
<210> 10645
<211> 73
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10646
<211> 78
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10647
<211> 91
<212> PRT
<213> Enterobacter cloacae
```

<400> 10647
Arg Ser His Gly Val Ala Ile Tyr Ser His Glu Lys Tyr Leu Ser Thr
1 5 10 15
Asp Pro Gly Ala Glu Ser Ser Ile Leu Ser Ala Ala Gln Arg Ile Ile

5900

		20						25				30			
Val	Ser	Cys	Arg	Lys	Glu	Ser	Arg	Lys	Ala	Glu	Glu	Thr	Gln	Lys	Gly
		35					40					45			
Lys	Ser	Cys	Pro	Phe	Ser	Gly	Gly	Glu	Arg	Ala	Tyr	Ala	Gly	Gly	Thr
	50					55					60				
Ser	Val	Thr	Gly	Ser	Ala	Gly	Lys	Arg	Val	Leu	Pro	Val	Ser	Val	Thr
65					70					75					80
Ala	Ala	Pro	Glu	Arg	Pro	Pro	Ala	Ser	Phe						
				85					90						

<210> 10648

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10648

Phe	Asn	Pro	His	Ser	Ser	Val	Ile	Gly	Arg	Cys	Pro	Ala	Glu	Gln	Ile
1				5				10					15		
Ile	Gln	Ile	Pro	Cys	Gln	Leu	Phe	Ile	Leu	Leu	Ile	Leu	Leu	Asn	Val
			20					25					30		
Ile	Asp	Ile	Tyr	Pro	Ser	Ser	Gly	Tyr	Ser	His	Leu	Val	Asn	Ile	Thr
	35						40					45			
Lys	Glu	Trp	Leu	Ile	Ser	Ser	Trp	Leu	Asn	Ile	Lys	Ile	Ile	Cys	Leu
	50					55					60				
Ala	Lys	Pro	Thr	Ala	Ser	Trp	Lys	Cys	Leu	Asn	Arg	Phe	Arg	Ala	Ser
65					70					75					80
Arg	Arg														

<210> 10649

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10649

Lys	Pro	Leu	Arg	Pro	Ser	Thr	Ala	Thr	Ser	Leu	Met	Tyr	Val	Ala	Leu
1				5				10						15	
Val	Pro	Tyr	Ser	Pro	Pro	Thr	Asp	Ser	Pro	Trp	Asn	Arg	Arg	Ala	Ser
			20					25					30		
Asn	Ser	Asn	Ala	Gly	Ala	His	Val	Pro	Ile	Val	Ser	Tyr	Pro	Gly	Lys
		35					40					45			
Gln	Ala	Ile	Thr	Ser	Glu	Pro	Thr	His	Ile	Met	His	Thr	Glu	Met	Ser
	50					55					60				
Met	Asp	Val	Leu	Arg	Pro	Phe	Leu	Ser	Ala	Ile	Leu	Pro	Asn	Ser	His
65					70					75					80
Pro	Pro	Met	Gly	Arg	Ile	Arg	Asn	Pro	Ala	Ala	Lys	Thr	Pro	Ala	Val
				85					90					95	
Cys	Arg	Ser	Cys	Val	Val	Val	Phe	Pro	Asp	Gly	Lys	Lys	Ile	Cys	Ala
			100					105					110		
Lys															

<210> 10650

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10650

Asn	Asn	Phe	Asn	Asn	Gly	Ala	Ala	Leu	Thr	Arg	Pro	Phe	Asp	Tyr	Gln
1				5					10					15	
Gln	Asp	Phe	Ala	Asn	Ile	Asn	Phe	Arg	Glu	His	Pro	Glu	Arg	Tyr	Gln


```
<210> 10651
<211> 154
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10652
<211> 81
<212> PRT
<213> Enterobacter cloacae
```

<400> 10652															
Glu	Phe	Phe	Ser	Pro	Lys	Thr	Gln	Phe	Ser	Pro	Leu	Gly	Gly	Gly	Leu
1				5					10					15	
Lys	Leu	Gly	Pro	Lys	Gly	Tyr	Gly	Cys	Ser	Pro	Phe	Lys	Val	Val	Arg
			20					25					30		
Glu	Leu	Gly	Leu	Glu	Arg	Arg	Glu	Thr	Val	Arg	Ser	Ile	Ser	Ala	Val
		35					40					45			
Gly	Ala	Gly	Glu	Leu	Arg	Gly	Val	Ala	Pro	Ser	Thr	Arg	Gly	Pro	Glu
	50					55					60				
Trp	Thr	His	His	Trp	Cys	Ser	Gly	Cys	His	Ala	Asn	Gly	Thr	Ala	Arg
65					70					75					80

<210> 10653
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (45)

<400> 10653
 Gly Ile Lys Ala Met Pro Leu Ser Ala Gln Gln Leu Ala Ala Gln Lys
 1 5 10 15
 Asn Leu Ser Tyr Val Leu Ala Glu Lys Leu Ala Gln Leu Ile Leu Ala
 20 25 30
 Gly Lys Tyr Ala Pro Gly Ser Ile Leu Ala Pro Lys Xaa Gly Lys Arg
 35 40 45
 Trp Ser Trp Glu Ile Ser Leu Ala Leu Ala Val Gln Pro Phe Ala Lys
 50 55 60
 Arg
 65

<210> 10654
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 10654
 Lys Asn Ser Asn Asn Val Ile Ala Asn Gly Gly Ile Met Asn Val His
 1 5 10 15
 Leu Lys Tyr Asp Thr Ile Lys His Tyr His Phe Asp Trp Leu Thr Pro
 20 25 30
 Ala Gly Asp Tyr Pro Asn Ser Ala Val Met Leu Val Gly Phe Arg Asp
 35 40 45
 Gly Arg Trp Ile Ile Val Gln Glu Phe Gly Asn Asp Tyr Ser Cys Phe
 50 55 60
 Glu Gly Val Leu Lys Asn Gly Asp Asp Leu Asn Thr Glu Pro Lys Phe
 65 70 75 80
 Tyr Ser Asp Leu Glu Ser Val Ala Val Ala Ala Phe Gly Met Met Lys
 85 90 95
 Gln Ile Tyr Pro Gln Tyr Gln Asp Ser Thr Leu Glu Glu Phe Leu Ala
 100 105 110
 Gly

<210> 10655
 <211> 136
 <212> PRT
 <213> Enterobacter cloacae

<400> 10655
 Glu Asp Asn Thr Arg Ser Asp Asn Lys Val Val Ser Met Ile Val Gly
 1 5 10 15
 Ser Asn Gly Ser Thr Phe Glu Lys Gly Arg Gln His Tyr Lys Ile His
 20 25 30
 Gln Gln Cys Thr Gln Ile Asn Tyr Trp Tyr Leu Lys Met Lys Val Lys
 35 40 45
 Glu Leu Ile Ala Met Leu Asn Glu Arg Asp Pro Glu Ala Ile Val Leu
 50 55 60

Ile	Ser	Gly	Tyr	Glu	Thr	Ile	Gly	Gly	Thr	Glu	Val	Ala	Glu	Ala	Asp
65					70					75					80
Leu	Leu	Ile	Asp	Met	Gln	Ser	Ile	Cys	Leu	Glu	Gln	Ala	Asp	Asn	Leu
				85					90					95	
Thr	Gly	Asn	Arg	Lys	Val	Val	Ser	Ser	Gly	Gly	Glu	Asp	Ser	Val	Trp
			100					105					110		
Leu	Gly	Trp	Lys	Asp	Asp	Tyr	Arg	Thr	Lys	Val	Phe	Leu	Glu	Asp	Ala
		115					120					125			
Gln	Ile	Pro	Asp	Gln	Asp	Glu									
	130					135									

<210> 10656

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10656

Val	Lys	Ile	Thr	Tyr	Asn	Gln	Tyr	Leu	Leu	Glu	Gln	Leu	Met	Ala	Asp
1				5				10						15	
Thr	Tyr	Leu	Pro	Pro	Gly	Phe	Lys	Lys	Cys	Lys	Ser	Cys	Gln	Gln	Val
			20					25					30		
Lys	Pro	Phe	Glu	Gln	Phe	Gly	Lys	Glu	Leu	Lys	Gly	Lys	Phe	Gly	Leu
		35					40					45			
Lys	Ser	Lys	Cys	Arg	Ala	Cys	Ile	Ser	Glu	Lys	Asn	Lys	Thr	Tyr	Ala
	50					55					60				
Ala	Gly	Pro	Gly	Ala	Glu	Val	Lys	Thr	Gln	Asn	Asn	Arg	Thr	Tyr	Gln
65					70				75						80
Ala	Glu	Asn	Lys	Thr	Glu	Leu	Ala	Glu	Lys	Met	Arg	Val	Lys	Arg	Ala
				85					90					95	
Lys	Glu	Lys	Phe	Gly	Asp	Arg	Tyr	Asn	Ser	Tyr	Leu	Ala	Ser	Leu	Glu
			100					105					110		
Ser	Met	Lys	Lys	Leu	Lys										
		115													

<210> 10657

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 10657

Asn	Met	Lys	Val	Thr	Ile	Asp	Gly	Val	Ser	Tyr	Ala	Pro	Val	Cys	Asn
1				5				10						15	
Ala	Gly	Ala	Arg	Ile	Gly	Ile	Ala	Ile	Thr	Thr	His	Asn	Arg	Ala	Asp
			20					25					30		
Ala	Leu	Lys	Arg	Ala	Leu	Ala	Gln	His	Gln	Gln	Phe	Leu	Pro	Gln	Gly
		35					40					45			
Ala	Leu	Val	Val	Val	Ile	Asp	Gly	Ser	Lys	Pro	Pro	Ala	Glu	Val	
	50					55				60					
Phe	Glu	Asp	Val	Gln	Leu	Leu	Arg	His	Glu	Thr	Ser	Leu	Gly	Ile	Val
65					70				75						80
Ala	Ser	Lys	Asn	Ala	Ser	Leu	Thr	Ala	Leu	Met	Asp	Ala	Gly	Cys	Glu
				85					90					95	
His	Leu	Phe	Leu	Trp	Asp	Asp	Asp	Ala	Trp	Pro	Ile	Ala	Asp	Asn	Trp
			100					105					110		
His	Leu	Pro	Tyr	Ile	Glu	Ser	Pro	Glu	Pro	His	Leu	Ala	Tyr	Gln	Phe
		115					120					125			
Leu	Asp	Leu	Ala	Gly	Thr	Asn	Lys	Leu	Lys	Asp	Met	Ala	Ile	Leu	Tyr
	130					135					140				
Arg	Asp	Asp	Lys	His	Ile	Ala	Tyr	Thr	Gly	Gln	Arg	Gly	Val	Met	Leu
145					150					155					160
Tyr	Tyr	His	Arg	Ser	Ala	Ile	Glu	Lys	Val	Gly	Gly	Phe	Asp	Pro	Val

```
<210> 10658
<211> 271
<212> PRT
<213> Enterobacter cloacae
```

<400> 10658															
Ala	Ser	Ile	Gln	Leu	Asn	Gln	Phe	Ser	Tyr	Gln	Tyr	Asp	Asn	Glu	Phe
1				5					10					15	
Leu	Phe	Leu	Thr	Ser	Leu	Asp	Thr	Pro	Tyr	Arg	Leu	Lys	Ser	Val	Asp
			20					25					30		
Ser	Gly	Arg	Cys	Ala	Leu	Thr	Asn	Pro	Phe	Ser	Ile	Ser	Leu	Asn	Val
		35					40					45			
Trp	Ser	Arg	Val	Met	Gly	Ile	Leu	Thr	Phe	Asp	Ile	Thr	Cys	Pro	His
	50					55					60				
Cys	Leu	Arg	Glu	Asn	Ala	Val	Leu	Glu	Gly	Trp	Ala	Glu	Leu	Arg	Ile
65				70						75				80	
Asn	Ala	Gly	Pro	Leu	Val	Asn	Val	Ala	Phe	Ser	Cys	Arg	Ser	Cys	Phe
				85					90					95	
Gln	Ala	Gly	Ile	Ala	Met	Val	Lys	Met	Asn	Asn	Pro	Val	Gly	Phe	Ser

```
<210> 10659
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10660
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10661
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

Gly Arg His Cys Pro Arg Ile Lys Pro Thr His Gln Arg Arg Arg Phe

```

1           5           10           15
Arg Val Leu Glu Thr Gly Phe Glu Glu Ser Phe Gly Glu Ile Arg Leu
20           25           30
Arg His Cys Val Ala Ser Met Asp Thr Ser Tyr Glu Asp His Cys Asn
35           40           45
Ala Trp Gln Gly Lys Lys Asn Asn Ala Arg His Asn Arg Ala Cys Lys
50           55           60
Val Thr Tyr
65

```

<210> 10662

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10662

```

Ser Arg Ser Ser Ala Trp Ala Asp Ala Ala His Ser Asn Thr Pro Ala
1           5           10           15
Leu Ser Ala Leu Ala Gln Ser Arg Gly Leu Thr Asp Asn Arg Ser Gly
20           25           30
Phe Met Thr His Val Ile Glu Lys Ile Ala Phe Pro Leu Met Gly Ser
35           40           45
Asp Tyr Ser Thr Met Asn Ser Gly Leu Pro Val Ile Ser Ser Gly Ile
50           55           60
Ser Ile Pro Ile Ser Asp Asn Met Val Gly Ala Met Ser Glu Ser Leu
65           70           75           80
Pro Pro Ser Thr Ala Phe Thr Asp Leu Ser Pro Thr
85           90

```

<210> 10663

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10663

```

Lys Asn Gln Asp Arg Ser Ile Pro Val Arg Cys Gly Lys Tyr Ser Gln
1           5           10           15
Arg His Lys Ala Asn Leu Phe Ser Ala Ala Cys His Val Lys Lys Ala
20           25           30
Ser Lys Trp Pro Glu Asn Ser Leu Ala Pro Ala Leu Ser Leu Ile Phe
35           40           45
Cys Gly Tyr Phe Ile Asp Ser Ala Val Val Lys Leu Arg Lys Ile Phe
50           55           60
Val Ser
65

```

<210> 10664

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 10664

```

Val Ile Phe Tyr Thr Leu Ser Arg Tyr Gly Gly Glu Met Glu Thr Leu
1           5           10           15
Thr Val Gln Ala Tyr Leu Asn Glu Thr Trp Thr Asp Ile Ala Leu Ile
20           25           30
Lys Tyr Pro Gly Ser Glu Lys Asn Asp Trp Asn Thr Thr Gln Leu Asp
35           40           45
Tyr Leu Thr Glu Tyr Ala Ile Asn Phe Leu Asp Tyr Asp Asp Phe His
50           55           60
Ala Val Ser Val Asn His Pro Val Ser Leu Phe Phe Asp Asp His Gly

```

65					70					75				80
Gln	Pro	Gly	Trp	Leu	Arg	Phe	Ile	Asp	Asp	Ile	Ile	Pro	Ala	Gly
				85					90					95
Ser	Arg	Arg	Tyr	Trp	Ile	Asn	Ala	Leu	Asp	Ile	Ser	Glu	Leu	Pro
			100					105					110	Val
Gly	Gln	Gln	Asn	Phe	Leu	Leu	Leu	Lys	Phe	Gly	Thr	Met	Ser	Pro
		115					120					125		Val
Gly	Asn	Leu	Arg	Ile	Lys	Glu	Ser	Val	Pro	Glu	Trp	Asn	Lys	Phe
	130					135					140			Ala
Ser	Thr	Lys	Thr	Phe	Thr	Val	Ala	Asp	Val	Ile	Asp	Arg	Ala	Ala
145					150					155				Asp
Phe	Leu	Asp	Tyr	Ala	Gln	Glu	Arg	Gly	Ala	Ala	Gly	Gly	Ala	Thr
			165					170					175	
Gly	Ala	Gly	Gly	Glu	Ala	Pro	Lys	Leu	Leu	Leu	Arg	Cys	Ser	Thr
		180					185					190		
Asp	Ala	Ile	Trp	Ile	Asp	Thr	Trp	Gln	Asn	Glu	Pro	Asp	Asn	Arg
	195						200					205		Gly
Pro	Leu	Leu	Phe	Gly										
	210													

<210> 10665

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10665

Arg	Arg	Asn	Leu	Arg	Leu	Leu	Thr	Phe	Arg	Phe	Leu	Val	Thr	Arg	Gly
1				5					10					15	
Asn	Pro	His	Ile	Val	Ile	His	Phe	His	Ile	Arg	Lys	Phe	Ile	Pro	Gln
		20					25						30		
Asp	Asn	Glu	Leu	Ile	Ser	Cys	Ile	His	Ala	Asn	Tyr	Glu	Leu	Thr	Ala
		35				40						45			
Thr	Leu	Thr	Ser	Thr	Asp	Ile	Arg	Arg	Arg	Gly	Glu				
	50					55					60				

<210> 10666

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10666

Pro	Asp	Ser	Gly	Phe	Asn	Gln	Leu	Leu	Ala	Gly	Leu	Leu	Ser	Leu	Phe
1				5					10					15	
Phe	Leu	Phe	Ala	Arg	His	Tyr	Leu	Leu	Leu	Val	Thr	Tyr	Lys	Ile	Asp
		20					25						30		
Thr	Leu	Ser	Lys	Asp	Ile	Ala	Val	Val	Val	Ser	Asp	Lys	Val	Leu	Thr
	35					40						45			
Lys	Ile	Arg	Val	Ser	Phe	Ala	Gln	Lys	Lys	Ser	Ile	Arg	Leu	Ile	Tyr
	50				55						60				
Lys	Pro	Arg	Glu												
	65														

<210> 10667

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10667

Ala	Lys	Arg	His	Pro	Ala	Lys	Lys	Pro	Gly	Pro	His	Arg	Glu	Gly	Phe
1				5					10					15	
Phe	Ile	Ser	Ala	Leu	Leu	Lys	Ile	Ala	Ala	Ile	Ala	Asp	Lys	Ile	Ile

```
<210> 10668
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10669
<211> 179
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10670
<211> 131
<212> PRT
<213> Enterobacter cloacae
```

<400> 10670
Asp Glu Ala Ser Met Thr Ser Thr Leu Asp Pro Ser His Lys Gln Ile


```

1           5           10           15
Glu Met Trp Arg Arg Ala Thr Gly Ser Glu Gly Gly Leu Asn Glu Tyr
20           25           30
Arg Asn Trp Val Leu Glu Asn Ser Met Arg Phe Thr Ala Tyr Gly Ile
35           40           45
His Thr Val Ile Val Glu Gly Glu Ala Lys His Ile Thr Ala Leu Asp
50           55           60
Asp Val Thr Leu Cys Asn Glu Trp Ala Lys Leu Lys Arg Glu Asn Asn
65           70           75           80
Arg Leu Tyr Ala Ala Asn Glu Lys Ile Cys Ser Gly Trp Arg Gly Phe
85           90           95
Val Leu Arg Leu Leu Gly Ile Thr Leu Pro Cys Arg Lys Pro Val Ile
100          105          110
Leu Leu Gly Val Asp Gly Lys Asn Gln Asn Asp Ala Val Lys Gly Ala
115          120          125
Asp Leu
130

```

<210> 10671
 <211> 122
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10671
Phe Ser Gly Glu Pro Thr Val Leu Arg Lys Leu Phe Tyr Gly Tyr Val
1           5           10           15
Arg Lys Ile Met Phe Ser Glu Arg Ser Val His Leu Ile Thr Ser Cys
20           25           30
Thr Lys Gly Lys Asn His Gln Gly His Val Trp Pro Thr Leu Asp Ile
35           40           45
Asp Pro Lys Gln Thr Pro Asp Ala Ala Tyr Ala Trp Ser Asn Ile
50           55           60
Val Asp Asp Ala Arg Ser Asn Gln Ala Val Pro Ala Leu Ser Leu Tyr
65           70           75           80
Ser Gly Asn His Trp Ser Thr Ala Lys Glu Ile Leu Asn Ser Thr Arg
85           90           95
Asn Leu Glu Leu Trp Ile Ile Ser Ala Gly Met Gly Phe Leu Asn Ser
100          105          110
Arg Asp Arg Ala Leu Leu Met Arg Phe
115          120

```

<210> 10672
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10672
Val Cys His Ala Thr Asn Asn Gly Tyr Leu Thr Phe Ile Tyr Ser Pro
1           5           10           15
Thr Met Leu Ile Val Arg His Ala Ile Arg Ser Phe Ser Leu Ser Arg
20           25           30
Ala Thr Phe Asn Leu Met Glu Glu Cys Met Tyr Gly Leu Ser Leu Ile
35           40           45
Arg Leu Gly Leu Phe Ile Ala Leu Ala Ile Ile Ala Ser Thr Ala Ile
50           55           60
Gly Leu Phe Thr Tyr Val Val Val Ser Ala Leu Ala Glu
65           70           75

```

<210> 10673
 <211> 324
 <212> PRT

<213> Enterobacter cloacae

<400> 10673

Thr Thr Met Asn Ala Thr Gly Leu Asn Ile Ile Lys Thr Leu Gly Cys
 1 5 10 15
 Met Thr Ala Val Thr Phe Phe Thr Ile Tyr Asn Thr Trp Asp His Tyr
 20 25 30
 Asp Tyr Asp Tyr His Trp Ile Leu Gly Phe Leu Thr Phe Ile Ser Thr
 35 40 45
 Ile Ala Thr Pro Leu Phe Phe Val Val Ala Gly Tyr Leu Asp Gly Gln
 50 55 60
 Ser Arg His Gly Thr Arg Trp Gln Leu Asp Lys Ile Lys Arg Leu Val
 65 70 75 80
 Ile Val Phe Leu Phe Trp Val Thr Ile Tyr Tyr Leu Trp Glu Pro Tyr
 85 90 95
 Gln Arg Gly Tyr Leu Ile Gln Pro Trp Phe Val Phe Ala Phe Ile Val
 100 105 110
 Ile Tyr Thr Phe His Pro Val Val Glu Arg Leu Gly Gln Arg Arg Met
 115 120 125
 Leu Phe Cys Gly Val Ile Thr Ala Leu Leu Leu Phe Ser Tyr Gly Tyr
 130 135 140
 Asp Leu Leu Ser Ala Leu Tyr Pro Asp Ala His Val Leu Ser Leu Ser
 145 150 155 160
 Pro Gln Tyr Arg Leu Trp Thr Trp Leu Leu Phe Tyr Leu Thr Gly Gln
 165 170 175
 Leu Phe Cys Asp Pro Gln Ile Ala Ala Trp Ile Gly Arg Lys Asn Val
 180 185 190
 Val Arg Ala Ala Val Ile Ala Ile Pro Phe Ile Tyr Leu Phe Thr Trp
 195 200 205
 Phe Tyr Glu Arg His Phe Phe Phe Ala Leu Phe Lys Ala Asp Arg Asn
 210 215 220
 Ala Phe Ile Leu Thr Gly Ser Gln Ile Tyr Ile Leu Ile Ile Ala Leu
 225 230 235 240
 Val Ile Ala Ala Asn Gly Val Arg Phe Arg Arg Asn Ala Glu Phe Lys
 245 250 255
 Glu Ser Val Leu Ala Ala Ile Ser Lys Thr Met Thr Gly Val Tyr Ile
 260 265 270
 Met His Tyr Ser Val Phe His Leu Leu Thr Ala Leu Ile Pro Val Thr
 275 280 285
 Ser Leu Ser Thr Lys Leu Ala Leu Ile Val Leu Thr Phe Val Thr Ser
 290 295 300
 Val Leu Phe Ser Leu Leu Ile Leu Ser Asn Thr Val Ala Lys Lys Val
 305 310 315 320
 Ile Thr Leu

<210> 10674

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10674

Asp Thr Leu Gln Arg Gln Tyr Pro Cys Leu Gly Ile Val Ser Thr Val
 1 5 10 15
 Asn Tyr Ala Arg Leu Arg Phe Lys Thr Asp Gly Tyr Gly Phe Cys Thr
 20 25 30
 Phe Arg Leu Met Thr Glu Arg Ile Lys Gly Ile Ser Trp Leu Asn Gly
 35 40 45
 Ala Ala Asn Ile Ser Ala His Thr Leu Ser Thr Val Arg Arg Val Ser
 50 55 60
 Lys Ser Arg Lys Ser Arg Cys Pro Phe Leu

65

70

75

<210> 10675

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 10675

Ser Met Ala Ala Ala Thr Gly Trp Ile Ser Ala Ala Ser Cys Leu Thr
 1 5 10 15
 Trp Arg Asn Gln Phe Trp Tyr Glu Val Asn Val Gly Ile Glu Thr Ile
 20 25 30
 Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly Ala Phe Gly
 35 40 45
 Leu Gly His Ile Arg Gly Thr Ser Lys Ala Glu Ala Lys Ala Asp Gln
 50 55 60
 Gln Arg Thr Glu Asp Asn Ala Ala Ala Met Val Ala Ala Ala Glu Arg
 65 70 75 80
 Arg Val Glu Thr Thr Lys Glu Ala Ser Asn Val Gln Gln Thr Val Asn
 85 90 95
 His Met Pro Gly Asp Asp Val Asp Arg Glu Leu Arg Asp Glu Trp Lys
 100 105 110
 Arg Pro Gly Gly Gly
 115

<210> 10676

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10676

Trp Thr Arg Gly Arg Lys Met Gly Ile Ser Pro Thr Leu Asn Ile Pro
 1 5 10 15
 Gln Ala Arg Phe Leu Ala Met Gln His Lys Phe Lys Ala Tyr Val Ala
 20 25 30
 Gly Phe Gly Ser Gly Lys Thr Trp Val Gly Cys Gly Gly Ile Cys Lys
 35 40 45
 Gly Met Trp Glu His Pro Lys Ile Asn Gln Gly Tyr Phe Ala Pro Thr
 50 55 60
 Tyr Pro Gln Ile Arg Asp Ile Phe Tyr Pro Thr Ile Glu Glu Val Ala
 65 70 75 80
 Phe Asp Trp Gly Leu Asn Val Lys Ile Asn Glu Gly Asn Lys Glu Val
 85 90 95
 His Phe Tyr Glu Gly Arg Arg Tyr Arg Gly Thr Thr Ile Cys Arg Ser
 100 105 110
 Met Glu Lys Pro Gly Ser Ile Val Gly Phe Lys Ile Gly Asn Ala Met
 115 120 125
 Val Asp Glu Leu Asp Val Met Ala Ala Lys Ala Gln Gln Ala Trp
 130 135 140
 Arg Lys Ile Ile Ala Arg Met Arg Tyr Lys Ile Asp Gly Leu Arg Asn
 145 150 155 160
 Gly Ile Pro Leu Thr Gly Pro Gly
 165

<210> 10677

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10677

Thr Met Lys Glu Cys Lys Lys Asp Arg Leu Pro Glu Tyr Lys Ser Leu

1				5				10				15			
Ser	Val	Leu	Leu	Phe	Ile	Ile	Ser	Ile	Phe	Ile	Val	Ile	Phe	Ile	Pro
			20					25					30		
Val	Ala	Ser	Leu	Leu	Ile	Leu	Val	Ile	Leu	Val	Val	Thr	Ile	Lys	Lys
		35					40					45			
Gln	Lys	Ala	Arg	Thr	Lys	Pro	Gln	Glu	Asn	Ile	Tyr	His	Phe	Val	Lys
	50					55					60				
Asp	Met	Asn	Ala	Phe	Gly	Ser	Ile	Leu	Glu	Ser	Arg	Cys	Leu	Met	Ser
65					70					75				80	
Leu	Thr	Gly	Gly	Arg	Cys	Tyr	Ala	Thr	Ser	Ile	Phe	Asn	Pro	Tyr	Leu
				85					90					95	
Gly	Leu	Ser	Leu	Phe	Asp	Thr	Asp	Asn	Ile	Lys	Tyr	Val	Leu	Val	Met
			100					105					110		
Lys	Gly	Lys	Ala	Thr	Asp	Val	Phe	Lys	Pro	Ile	Ile	Ser	Ser	Tyr	Arg
		115					120					125			
Glu	Val	Phe	Leu	Pro	Trp	Lys	Trp	Trp	Lys	Phe	Phe	Arg	Gly	Glu	Tyr
	130					135					140				
Val	Ser	Lys	Ala	Leu	Lys	Asp	Leu	Glu	Phe	Asn	Cys	Asp	Val	Lys	Ser
145					150					155				160	
Val	Arg	Asn	Glu	Tyr	Lys	Glu	Tyr	Asn	Arg	Phe	Val	Cys	Gly	Ser	Arg
			165					170						175	
Lys	Arg	Val	Leu	Phe	Cys	Tyr	Leu	Tyr	Ile	Asp	Asn	Leu	Thr	Glu	Leu
			180					185					190		
Glu	Asn	Asp	Leu	Ser	Ile	Tyr	Arg	Ile	Gln	Lys	Phe	Leu	Phe	Trp	Ile
		195					200					205			
Gly	Asp	Ile	Phe	Leu	Ser	Val	Leu	Gly	Trp	Ile	Gly	Ile	Val	Cys	Gly
	210					215					220				
Asn	Leu	Ile	Phe	Leu	Gly	Leu	Cys	Gly	Cys	Glu	Phe	Val	Asn	Ser	Leu
225					230					235					240
Met	Asn	Tyr	Ile	Ser	Lys	Asn	Asn	Asp	Ser	Phe	Ala	Thr	His	Phe	Ser
				245					250					255	
Ile	Tyr	Trp	Val	Ile	Tyr	Ile	Ser	Gly	Val	Phe	Phe	Ala	Val	Phe	Leu
			260					265					270		
Ile	Ala	Cys	Leu	Tyr	Phe	Ile	Leu	Arg	Lys	Lys	Ser	Ile	Thr	Ser	Arg
		275					280					285			
Val	Ala	Arg	Gln	Lys	Lys	Lys	Tyr	Lys	Ser	Asn	Tyr	Lys	Phe	Met	Leu
	290					295					300				
Ser	Ile	Ser	Glu	Lys											
305						310									

<210> 10678

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10678

Gly	Gly	Ala	Met	Ser	Asp	Pro	Phe	Ser	Gly	Thr	Gly	Leu	Ala	Gly	Leu
1				5					10					15	
Ala	Leu	Thr	Gly	Ala	Ser	Val	Tyr	Gly	Leu	Leu	Thr	Gly	Thr	Asp	Tyr
			20					25					30		
Gly	Val	Val	Phe	Gly	Ala	Phe	Ala	Gly	Ala	Val	Phe	Tyr	Ile	Ala	Thr
		35					40				45				
Ala	Thr	Asp	Leu	Ser	Met	Leu	Arg	Arg	Leu	Ala	Tyr	Phe	Val	Val	Ser
	50				55						60				
Tyr	Ile	Val	Gly	Ile	Leu	Gly	Tyr	Gly	Leu	Val	Gly	Ser	Lys	Leu	Ala
65				70						75				80	
Ser	Trp	Thr	Glu	Tyr	Ser	Asp	Lys	Pro	Leu	Asp	Ala	Ile	Gly	Ala	Val
				85					90					95	
Ile	Val	Ser	Ala	Leu	Ala	Val	Gln	Ile	Leu	Thr	Phe	Leu	Asn	Lys	Gln
			100					105					110		
Asp	Ile	Gly	Ser	Leu	Val	Ala	Leu	Ile	Thr	Arg	Arg	Gly	Gly	Ser	Gly

115
Gly Thr Lys
130

120

125

<210> 10679
<211> 78
<212> PRT
<213> Enterobacter cloacae

<400> 10679
Lys Gln Arg Lys Arg Pro Ala Met Tyr Ser Arg Leu Leu Ile Ile Cys
1 5 10 15
Leu Ala Thr Met Leu Ile Ala Ser Cys Val Thr Asn Gly Ser Val Pro
20 25 30
Ala Val Val Asp Thr Gly Cys Asp Trp Val Lys Pro Ile Phe Leu Thr
35 40 45
Asp Gln Asp Ile Asp Val Leu Asp Arg Gln Thr Lys Lys Asp Ile Leu
50 55 60
Ala His Asn Lys Ala Trp Lys Ala Asn Cys Gly Lys Asn
65 70 75

<210> 10680
<211> 152
<212> PRT
<213> Enterobacter cloacae

<400> 10680
Gln Pro Met Lys Ile His Phe Ile Thr Ile Ala Leu Leu Ala Thr Ile
1 5 10 15
Ser Ser Pro Ser Tyr Ala Ala Phe Gln Glu Arg Glu Tyr Asn Thr Trp
20 25 30
Tyr Gln Lys Asp Ala Val Leu Tyr Asp Ile Thr Gln Thr Ser Glu Gly
35 40 45
Leu Pro Val Met Ile Ser Ile Ser Gln Pro Gly Arg Glu Ser Ala Asn
50 55 60
Met Leu Val Ser Tyr Met Ser Asp Gly Gly Cys Gly Asp Glu Lys Val
65 70 75 80
Arg Leu Asn Ala Asn Gly Lys Asp Val Pro Ala Thr Tyr Thr Cys Val
85 90 95
Ser Val Gly Ala Asp Arg Ile Glu His Phe Ala Val Asn Asp Ala Ser
100 105 110
Lys Val Asn Glu Met Val Asn His Leu Lys Ser Asp Phe Thr Leu Leu
115 120 125
Leu Gln Asn Asp Ile Lys Val Trp Ala Ala Asn Ile Lys Thr Pro Lys
130 135 140
Tyr Gly Leu Ala Pro Lys Phe
145 150

<210> 10681
<211> 469
<212> PRT
<213> Enterobacter cloacae

<400> 10681
Leu Asp Leu Gly Glu Arg Gln His Ile His Gln His His Leu Pro Ile
1 5 10 15
Thr His Ser Val Ser Lys Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu
20 25 30
Pro Gly Glu Asn Met Leu Tyr Asn Thr Gly Thr Ile Ala Ile Asn Gly
35 40 45
Asn Thr Ala Thr Gly Thr Gly Thr Asn Trp Thr Ala Pro Ala Ser Gln

50					55					60					
Ile	Arg	Val	Gly	Gln	Thr	Leu	Phe	Val	Leu	Ser	Asn	Pro	Val	Gln	Met
65					70					75					80
Phe	Gln	Ile	Thr	Ala	Ile	Asn	Ser	Ala	Thr	Ser	Leu	Thr	Val	Thr	Pro
				85					90					95	
Ala	Ala	Ser	Gln	Ala	Leu	Ser	Gly	Gln	Lys	Tyr	Gly	Ile	Leu	Val	Thr
			100					105					110		
Asp	Ser	Leu	Ser	Val	Asp	Gly	Leu	Ala	Gln	Ser	Met	Ser	Gln	Leu	Ile
		115					120					125			
Asn	Glu	Tyr	Asp	Glu	Asn	Ile	Gly	Ala	Trp	Glu	Thr	Phe	Ala	Thr	Thr
	130					135					140				
Ser	Ala	Asn	Gln	Asn	Ile	Thr	Val	Thr	Ile	Asn	Gly	Ala	Arg	Val	Thr
145					150					155					160
Ile	Pro	Ala	Ile	Gly	Lys	Leu	Val	Gln	Lys	Gly	Ser	Asn	Gly	Ala	Val
				165					170					175	
Gly	Val	Ser	Asp	Gly	Gly	Thr	Gly	Ala	Thr	Asn	Ala	Ala	Asp	Ala	Arg
			180					185					190		
Thr	Asn	Leu	Gly	Leu	Gly	Thr	Ser	Ala	Thr	Arg	Asn	Val	Gly	Gly	Ala
	195						200					205			
Pro	Gly	Asn	Val	Met	Glu	Val	Gly	Ala	Phe	Gly	Val	Gly	Leu	Thr	Asn
	210					215					220				
Phe	Thr	Ala	Asn	Ser	Val	Ala	Asp	Ala	Asn	Asp	Ile	Thr	Phe	Asn	Gly
225					230					235					240
Phe	Ser	Gly	Gly	Gly	Gly	Ala	Ser	Ser	Val	Asn	Phe	Phe	Asp	Gln	Tyr
				245					250					255	
Ala	Gly	Leu	Leu	Ala	Ile	Thr	Arg	Ser	Gly	Gly	Gly	Asp	Gly	Asn	Gly
			260					265					270		
Phe	Ile	Ala	Gln	Leu	Gln	Ile	Ser	Gly	Ser	Gly	Ala	Met	Ala	Val	Arg
	275						280					285			
Gly	Arg	Ala	Gly	Thr	Thr	Trp	Ser	Ser	Trp	Met	Gln	Val	Tyr	Asn	Thr
	290					295					300				
Gly	Asn	Thr	Thr	Lys	Ala	Ser	Asp	Gly	Thr	Leu	Lys	Ala	Ala	Ser	Pro
305					310					315					320
Val	Ala	Arg	Ile	Val	Ala	Ser	Ala	Asp	Thr	Cys	Leu	Arg	Ser	Asp	Ile
				325					330					335	
Ala	Glu	Asp	Gly	Phe	Ser	Trp	Cys	Gly	Cys	Gly	Thr	Ala	Asn	Thr	Glu
			340					345					350		
Ala	Glu	Gly	Ile	Lys	Ile	Leu	Arg	Leu	Asp	Val	Gly	Val	Tyr	Val	Leu
	355						360					365			
Thr	Gly	Ser	Ser	Gly	Leu	Ala	Ser	Glu	Gly	Trp	Gln	Leu	Leu	Pro	Pro
	370					375					380				
Met	Asp	Pro	Gly	Gly	Met	Gly	Glu	Leu	Gly	Val	Val	Glu	Ala	Glu	Gln
385					390					395					400
Thr	Ala	Asp	Gly	Glu	Leu	Thr	Ile	Arg	Leu	Phe	Lys	Arg	Lys	Tyr	Met
				405					410					415	
Leu	Ser	Asp	Glu	Gly	Glu	Ile	Val	Lys	Thr	Lys	Gly	Glu	Pro	Met	Asp
			420					425					430		
Val	Pro	Val	Asn	Ser	Trp	Ile	Asp	Val	Arg	Leu	Asp	Met	Pro	Asp	Asp
			435				440					445			
Ser	Val	Phe	Asn	Gln	Arg	Met	Arg	Gln	Glu	Pro	Gln	Leu	Glu	Pro	His
	450					455					460				
Ser	Pro	Ala	Leu												
465															

<210> 10682

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10682

Pro Val Arg Val Trp Arg Ser Arg Cys Phe Thr Gly Ala Cys Pro Leu

1				5					10				15		
Ile	Tyr	Pro	His	Asn	Gly	Leu	Leu	Tyr	Leu	Leu	Ala	Ile	Thr	Arg	Leu
			20					25					30		
Gly	Ala	Ala	Ser	Leu	Leu	Leu	His	Gly	Leu	Met	Ala	Ala	Val	Asn	Pro
		35					40					45			
Leu	Thr	Val	Ser	Arg	Ser	Leu	Ala	His	Pro	Pro	Val	Lys	Thr	Ile	
	50					55					60				

<210> 10683

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10683

Tyr	Pro	Thr	Leu	Thr	Leu	Val	Val	Ile	Cys	Leu	Ala	Ala	Arg	Leu	Tyr
1				5					10					15	
Met	Thr	Leu	Met	Arg	Arg	Met	Pro	Thr	Pro	Gly	Asn	Ile	Asn	Lys	Lys
			20					25					30		
Ser	Asn	Glu	Thr	Glu	Thr	Pro	Val	Ala	Leu	Ala	Glu	Arg	Ala	Phe	Phe
		35					40				45				
Ser	Lys	Lys	Ser	Gln	Leu	Gly	Gln	Asn	Trp	Leu	Gly	Leu	Ala	Val	Ser
	50				55					60					
Arg	Tyr	Tyr	Phe	Ala	Leu	Ile	Ser	Thr	Cys	Thr	Leu	Phe	Leu		
65					70					75					

<210> 10684

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10684

Gly	Met	Leu	Ser	Val	Gly	Leu	Ile	Pro	Ile	Phe	Arg	Pro	Arg	Val	His
1				5					10					15	
Tyr	Ile	Asp	Ile	Asp	Leu	Asn	Trp	Gly	Arg	Phe	Val	Ile	Ile	Thr	Ile
			20					25					30		
Thr	Gly	Gln	Leu	Phe	Ala	Glu	Phe	Phe	His	Leu	Gln	Gln	Pro	Ala	Val
		35					40				45				
Asp	Phe	Asp	Leu	Leu	Glu	Thr	Leu	Ser	Glu	Leu	Ala	Ile	Arg	Gln	Ala
	50				55					60					
Glu	Pro	Leu	His	Tyr	Arg	Phe	Lys	His	Ser	Leu	Thr	Ala	Asp	Gly	Cys
65				70						75					80
Asp	Phe	Asp	Thr	Ile	Leu	Ala	Asn	Leu	His	Ala					
				85					90						

<210> 10685

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10685

Val	Lys	Ala	Asn	Ser	Met	Val	Thr	Lys	Lys	Ile	Cys	Asn	His	Leu	Ser
1				5					10					15	
Ile	His	Tyr	Gln	His	Ser	Thr	Ala	Ser	Thr	Leu	Phe	Leu	Val	Ser	Phe
			20					25					30		
Phe	Glu	Trp	Arg	Thr	Gly	Cys	Tyr	Val	Ser	Ser	Met	Met	Ser	Asn	Asn
		35					40				45				
Lys	Glu	Ser	Leu	Ile	Lys	Gln	Ile	Ser	Glu	Tyr	Ala	Arg	Leu	Asn	Glu
	50				55					60					
Gln	Glu	Glu	Ile	Gln	Leu	Arg	Lys	Ile	Ile	Ser					
65					70					75					

<210> 10686
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10686
 Met Pro Asn Ala Ser Asp Tyr Phe Ser Cys Asn His Ile Phe Ser Phe
 1 5 10 15
 Thr Val Arg Lys Val Gly Asp Leu Asp Thr Val Ile Val Ser Asn Pro
 20 25 30
 Ile Ile Ser Leu Phe His Asn Ser Pro Leu Lys Leu Phe His Leu Glu
 35 40 45
 Val Tyr Met Thr Ile Gln Asn Leu Val Val Asp Lys Thr Phe Phe Leu
 50 55 60
 Arg Met Trp Arg Arg Val Pro Pro Gly Asp Leu Ser Leu Val Val Lys
 65 70 75 80
 Val Ala Cys Ile Pro Ala His Ser Ser
 85 90

<210> 10687
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10687
 Lys Lys Ile Phe Phe Glu His Arg Phe Gln Asn Gly Phe Pro Phe Met
 1 5 10 15
 Pro Gly Ala Ala Gly Ala Val Ala Leu Asn Ile Arg His Val Ser Lys
 20 25 30
 Leu Ile Tyr Thr His Leu Ile Val Asn Thr Asn Lys Lys Thr Asn His
 35 40 45
 Val Tyr Tyr Phe Ile Asn Asp Ala Ile Leu Lys Ser Val
 50 55 60

<210> 10688
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10688
 Thr Glu Met Thr His Thr Ala Val Ser Gln Ala Asn Ser Ala Leu Gln
 1 5 10 15
 Leu Pro Thr Val Glu His Val Tyr Ala Leu Leu Lys Ala Asn Cys Lys
 20 25 30
 Pro Asp Arg Phe Asp Gly Arg Asp Gly Pro Val Trp Gly Gln Glu Tyr
 35 40 45
 Ser Trp Asn Leu Ala Lys Asp Arg Leu Gln Asp Leu Glu Lys Tyr Gly
 50 55 60
 Lys Ala Tyr Val Ser Arg His Glu Asp Arg Met Gly Glu Gly Phe Ser
 65 70 75 80
 Phe Gly Pro Asp Leu Leu Ile Ile Arg
 85 90

<210> 10689
 <211> 811
 <212> PRT
 <213> Enterobacter cloacae

<400> 10689
 Arg Gly Ile Arg Met Lys His Leu Ala Phe Ile Thr Ala Val Ala Gly
 1 5 10 15

Leu Gly Met Ser Val Gln Ala Pro Ala Gln Ile Tyr Glu Ser Ala Phe
 20 25 30
 Lys Asp Thr Asn Gly Ile Glu Ile His Ala Pro Ser Ser Arg Leu Met
 35 40 45
 Leu Asn Pro Ala Ser Pro Val Thr Leu Thr Leu Ile Ser Gly Leu Asp
 50 55 60
 Arg Phe Val Asn Val Lys Val Thr Lys Asp Thr Gly Thr Val Ile Leu
 65 70 75 80
 Asn Thr Thr Thr Thr Arg Thr Gly Val Ser Asp Arg Leu Thr Ala Ala
 85 90 95
 Asp Gly Ser Glu Phe Tyr Gly Lys Lys Val Thr Leu Pro Ala Leu Gly
 100 105 110
 Glu Gly Lys Phe Val Val Gln Ile Asn Val Leu Asp Leu Asn Gln Lys
 115 120 125
 Pro Val Ala Thr Tyr Asn Tyr Asn Trp Leu Ile Asp Val Thr Pro Pro
 130 135 140
 Ala Ala Asn Ala Leu Thr Ala Asn Thr Gly Ser Gly Ser Thr Ala Gly
 145 150 155 160
 Asp Val Trp Lys Leu Gly Leu Glu Ala Thr Gly Gln Tyr Asp Phe Thr
 165 170 175
 Ser Ser Gly Val Ser Asp Ala Asn Gly Ile Asp Lys Gly Leu Ile Tyr
 180 185 190
 Ile Tyr Arg Gln Asp Gly Ser Leu Tyr Ser Thr Thr Gln Met Gln Tyr
 195 200 205
 Asp Val Ser Gly Gln Lys Met Tyr His Thr Tyr Ser Lys Asn Ser Val
 210 215 220
 Lys Gly Thr Gly Ile Pro Asp Ser Asn Leu Asp Glu Asp Phe Thr Ala
 225 230 235 240
 Lys Val Val Ile Phe Asp Asn Ala Gly Asn Ser Arg Thr Leu Pro Thr
 245 250 255
 Gln Lys Phe Arg Tyr Asp Asn Thr Leu Gly Glu Met Thr Leu Trp Ala
 260 265 270
 Val His Asp Pro Asn Thr Ser Ser Ser Val Val Pro Gly Val Ser Asn
 275 280 285
 Tyr Pro Ala Tyr Lys Ala Gly Met Val Val Asn Glu Asn Pro Ile Arg
 290 295 300
 Leu Val Tyr Arg Ile Pro Lys Ser Asn Tyr Arg Ala Tyr Ser Glu Gly
 305 310 315 320
 Gly Leu Gln Phe Ile Asn Gln Tyr Ser Ala Pro Lys Glu Ile Ala Val
 325 330 335
 Asp Ser Thr Tyr Ala Tyr Val Glu Met Thr Leu Pro Tyr Gly Ser Ile
 340 345 350
 Asn Gly Asp Met Ala Arg Met Ala Asn Phe Gly Gln Trp Gly Gly Tyr
 355 360 365
 Tyr Pro Ser Tyr Ser Leu Val Leu Asn Pro Ser Ala Asn Gln Thr Pro
 370 375 380
 Ala Phe Ala Gly Thr Trp Val Asp Phe Leu Asp Asp Lys Gly Asn Trp
 385 390 395 400
 Val Lys Trp Lys Asp Phe Glu Ser Val Ala Ser Ser Arg Leu Pro Ile
 405 410 415
 Lys Ile Ser Arg Leu Arg Phe Asn Val Glu Ala Arg Pro Phe Ala Gln
 420 425 430
 Glu Ile Gly Gly Lys Ala Thr Cys Thr Ile Pro Ala Gly Lys Thr Ser
 435 440 445
 Cys Glu Ala Pro Glu Thr Phe Asp Met Ala Leu Gly Thr Gln Gly Tyr
 450 455 460
 Asn Arg Ile Leu Tyr Phe Val Arg Ser Ile Ser Asn Pro Ile Leu Arg
 465 470 475 480
 Ser Glu Gln Trp Ile Met Thr Arg Trp Asn Asn Lys Gln Leu Pro Val
 485 490 495
 Ile Asn Ser Ile Ser Tyr Asp Glu Thr Asn Lys Gln Leu Asp Val Leu

			500					505				510			
Ala	Ser	Leu	Glu	Gly	Asp	Gly	Asn	Trp	Phe	Asp	Ser	Val	Ser	Leu	Arg
		515					520					525			
Glu	Phe	Tyr	Leu	Ser	Asp	Lys	Asn	Thr	Gly	Thr	Arg	Met	Ser	Pro	Thr
	530					535						540			
Gly	Val	Ile	Lys	Ser	Arg	Ile	Ser	Gly	Asn	Tyr	Thr	Ile	Ala	Tyr	Asp
545					550					555					560
Leu	Ser	Arg	Gln	Ser	Glu	Gly	Lys	Tyr	Asn	Val	Glu	Val	Asn	Ile	Arg
				565					570					575	
Asp	Phe	Phe	Gln	Asn	Gln	Thr	Asn	Lys	Thr	Phe	Gly	Glu	Ile	Ala	Leu
			580					585					590		
Asp	Asn	Thr	Pro	Pro	Thr	Val	Ala	Ile	Thr	Phe	Asp	Gly	Lys	Pro	Val
	595						600					605			
Lys	Asp	Asp	Thr	Val	Val	Tyr	Gly	Leu	Glu	Asn	Leu	Arg	Ile	Ala	Leu
	610					615					620				
Ala	Asp	Asn	Leu	Thr	Thr	Pro	Arg	Ile	Thr	Arg	Leu	Gln	Leu	Val	Gly
625					630					635					640
Gly	Pro	Thr	Ala	Asp	Asn	Val	Glu	Leu	Thr	Trp	Ser	Pro	Ala	Gly	Lys
				645					650					655	
Asp	Thr	Tyr	Met	Pro	Glu	Tyr	Pro	Arg	Leu	Phe	Pro	Asn	Phe	Glu	Pro
			660					665					670		
Ser	Glu	Asn	Tyr	Ser	Ile	Ser	Val	Thr	Val	Ala	Asp	Ser	Gln	Ser	Asn
		675					680					685			
Thr	Lys	Thr	Tyr	Thr	Gln	Lys	Phe	Ser	Tyr	Leu	Pro	Asn	Asn	Leu	Val
	690					695					700				
Gln	Leu	His	Asn	Leu	Arg	Thr	Leu	Ser	Val	Ser	Ser	Pro	Leu	Lys	Thr
705					710					715					720
Thr	Asp	Gly	Val	Pro	Leu	Ala	Tyr	Leu	Ser	Thr	Asn	Val	Leu	Arg	Lys
				725					730					735	
Thr	Asn	Gly	Glu	Ile	Ala	Lys	Gly	Val	Gln	Asn	Ala	Thr	Leu	Thr	Val
			740					745					750		
Arg	Lys	Asp	Ala	Ala	Phe	Gly	Ile	Lys	Phe	Asn	Gly	Ala	Gln	Ala	Ala
		755					760				765				
Pro	Gly	Glu	Ser	Val	Glu	Val	Gln	Ile	Asp	Met	Gly	Gln	Gly	Asp	Asn
	770					775					780				
Leu	Leu	Leu	Pro	Val	Tyr	Pro	Ser	Glu	Asn	Gly	Lys	Val	Gly	Thr	Ser
785					790					795					800
Glu	Phe	Met	Ile	Gln	Ile	Asp	Glu	Leu	Lys						
				805					810						

<210> 10690

<211> 265

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (212)

<400> 10690

Tyr	Lys	Ala	Asn	Thr	Glu	Lys	Glu	Asn	Lys	Met	Tyr	Lys	Leu	Val	Ser
1				5				10					15		
Pro	Arg	Glu	Leu	Thr	Glu	Ile	Ile	Thr	Gly	Leu	Leu	Leu	Lys	Pro	Glu
			20					25					30		
Leu	Leu	Gly	Glu	Leu	Asp	Ser	Pro	Glu	Lys	His	Arg	Met	Phe	Met	Ala
		35					40				45				
Asp	Leu	Gly	Arg	Val	Val	Ala	Glu	His	Cys	Gly	Gly	Leu	Val	Asn	Ser
	50					55				60					
Val	Val	Leu	Pro	Gly	Thr	Glu	Val	Thr	Val	Ser	Asp	Gly	Leu	Pro	Leu
65					70				75						80
Asn	Gly	Gln	Pro	Val	Arg	Tyr	Leu	Gly	Ile	Lys	Glu	Asn	Ile	Pro	His

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<210> 10691
<211> 204
<212> PRT
<213> Enterobacter cloacae
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<210> 10692
<211> 66
<212> PRT
<213> Enterobacter cloacae
```

<400> 10692

Ala Phe Pro Lys Gly His Tyr Val Arg Lys Ser Ile Lys Asn Phe Ser
 1 5 10 15
 Ile Trp Cys Ser Lys Leu Gln Ile Tyr Asn Leu Pro Phe Asp Lys Pro
 20 25 30
 Tyr Cys Ala Phe Arg Thr Glu Ile Phe Leu Phe Gly Ile Thr Ser Asp
 35 40 45
 Ile Ser Val Val Ser Lys Leu Ala Thr Ile Ala Lys Leu Ile Thr Leu
 50 55 60
 Ala
 65

<210> 10693

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10693

Ala Thr Ser Leu Ser Glu His Cys Asp Gly Met His Asp Met Phe Asn
 1 5 10 15
 Val Arg Ala Phe Lys Glu Trp Trp Ile His Asn Asp Asn Ile Lys Ser
 20 25 30
 Phe Ile Gly Leu Val Pro Lys Lys Val Gly Met His Gln Leu Asp Ser
 35 40 45
 Cys Ala Lys Asp Thr Ile Val Leu His Cys Lys Glu Ser Leu Ile Val
 50 55 60
 Gln Phe Asp Pro Gly Asn Gln Cys Ile Arg Ser Arg Gln Phe
 65 70 75

<210> 10694

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 10694

Arg His Arg Pro Gly Gly Thr Gly His Lys Arg Lys Thr Ile Leu Lys
 1 5 10 15
 Pro Met Leu Lys Lys Asp Phe Phe Ser Ala Ile Glu Asn Leu Leu Lys
 20 25 30
 Ala Gly Phe Gln Pro Arg Phe Tyr Thr Val Asn Ser Gly Arg Ile Gly
 35 40 45
 Leu Ile Thr Phe Thr Asp Lys Asn Gly Thr Lys Gln Val Glu Gln Val
 50 55 60
 Tyr Ser Cys Thr Ser Leu Ala Ala Asn Thr Phe Gly Lys Arg Phe Thr
 65 70 75 80
 Thr Trp Leu Glu Glu Ile Phe Gln Lys His Asn Glu Glu Lys Val Ala
 85 90 95
 Asp Ser Gly Phe Glu Val Gly Ser Arg Val Trp Asp Lys Leu Met Tyr
 100 105 110
 Thr Leu Arg Thr Ile Ser Glu Ile Arg Ala Gly Gly Val Leu Val Leu
 115 120 125
 Asp Asn Gly Ala Gln Arg Thr Leu Asp Glu Val Gln Lys Thr Ala Pro
 130 135 140
 Glu Thr Asn Gln Val Glu Pro Lys Glu Ile Ser Ser Leu Gln Glu Leu
 145 150 155 160
 Leu Asn Ala Ser Lys Asn Leu Glu Pro Thr Ser Pro Glu Leu Ile Ala
 165 170 175
 Ala Leu Asn Glu Ala Leu Ser Thr Ala Ile Lys Arg
 180 185

<210> 10695
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 10695
 Pro Cys Thr Lys Met Met Glu Lys Gln Val Ala Lys Asn Asn Asn Ser
 1 5 10 15
 Leu Lys Gln His Val Phe Asn Met Leu Ser Ala Gly Ser Glu Leu Lys
 20 25 30
 Glu Val Lys Arg Phe Leu Thr Ser Lys Arg Val Lys Ala Arg Leu Ala
 35 40 45
 Val Ser Met Ile His Glu Gln Ala Ile Ala Val Gln Asn Thr Glu Tyr
 50 55 60
 Gln Asn Tyr Pro Ala Tyr Ser
 65 70

<210> 10696
 <211> 242
 <212> PRT
 <213> Enterobacter cloacae

<400> 10696
 Cys Val Pro Tyr Trp His Cys His Cys Pro Pro Ser Val Arg Ser Ala
 1 5 10 15
 Leu Gly Gly His Arg Asn Leu Met Arg Arg Val Thr Ala Ile Val Asn
 20 25 30
 Leu Asp Trp Ile Gly Glu Tyr Gly Phe Arg Leu Gly Gln Met Ser Met
 35 40 45
 Val Met Leu His Pro Ala His Tyr Cys Ser His Cys Arg Ser Ala Glu
 50 55 60
 Leu Met Leu Leu Ser Phe Tyr Val Ala Thr Thr Val Val Ser Pro Glu
 65 70 75 80
 Ser Asp Tyr Arg Cys His Gly Arg Pro Val Glu Arg Val Asn Leu Leu
 85 90 95
 Asn His Arg Val Thr Thr Val Leu Ser Pro Glu Ser His Tyr Arg Cys
 100 105 110
 His Gly Arg Leu Val Lys Arg Ile Tyr Leu Ser Ile His Arg Val Thr
 115 120 125
 Met Val Val Ser Pro Ala Ser His Tyr Arg Cys His Ser Arg Pro Val
 130 135 140
 Glu Gln Ile Asn Leu Leu Thr Tyr Arg Met Thr Thr Val Val Ser Leu
 145 150 155 160
 Leu Ser His Tyr Arg Cys His Cys His Pro Glu Glu Arg Met Ile Leu
 165 170 175
 Ser Ile His Thr Ala Thr Met Ala Leu Ser Pro Ala Ser His Phe Arg
 180 185 190
 Cys His Ser Leu Pro Glu Glu Gln Met Ser Leu Leu Ile Asn Arg Val
 195 200 205
 Thr Thr Val Val Ser Ser Leu Ser His Tyr Tyr Cys His Gly Arg Thr
 210 215 220
 Ala Glu Leu Ile Ile Leu Ser Ile His Thr Pro Thr Met Val Val Ser
 225 230 235 240
 Tyr

<210> 10697
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 10697

```

Met Ala Met Asn Lys Lys Glu Gln Ala Ala Tyr Asp Glu Leu Val Ala
1      5      10
Gln Ala Arg Ile Asn Arg Ala Leu Arg Trp Ser Asp Tyr Gly Val Glu
20     25     30
Arg Asp Met Pro Val Pro Glu Val Ser Gly Glu Tyr Gln Asn Gly Trp
35     40     45
Ser Phe Asn Thr Ala Thr Gly Thr Val Tyr Pro Thr Trp Ser Gly Thr
50     55     60
Thr Val His Gly Thr Arg Glu Glu Gly Glu Val Val Asp Ala Thr Ser
65     70     75
Arg Arg Met Arg Gly Met Asn Gly Ser Gln Asn Gly Ile Pro Gln Tyr
85     90     95
Ser Thr Lys Glu Arg Ala Leu Lys Ala Leu Arg Cys Ser Leu Glu Ile
100    105    110
Lys Phe Ala Met Gln Leu Asp Ala Ile Asp Lys Ala Ile Ala Lys Glu
115    120    125
Ile Glu Leu Ser Thr Ala Arg Arg Glu Ser Asp Thr Ser Asp Ala
130    135    140

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<210> 10698

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 10698

```

Leu Leu Leu Asp Leu Pro Pro Ser Gly Glu Asp Val Thr Val Asp Gly
1      5      10
Leu Glu Asn Val Arg Ile Gln Leu Thr Asp Ala Leu Thr Lys Pro Ser
20     25     30
Leu Ser Arg Met Thr Leu Arg Gly Gly Pro Val Ser Asp Ala Val Glu
35     40     45
Leu Ser Trp Val Asn Leu Gly Asn Asn Leu Tyr Ala Pro Asn Tyr Pro
50     55     60
Lys Ile Phe Pro Ser Leu Asn Glu Gly Glu Thr Tyr Thr Leu Thr Val
65     70     75
Gln Ala Lys Asp Glu Met Asn Asn Val Lys Glu Ser Ser Val Glu Phe
85     90     95
Asn Tyr Leu Pro Asn Asn Leu Val Arg Leu Glu Asn Leu Lys Thr Leu
100    105    110
Ala Val Asn Ala Ser Leu Lys Thr Ser Asp Asn Thr Pro Leu Ala Val
115    120    125
Leu Tyr Ala Ser Gln Leu Arg Lys Lys Asp Gly Ser Ile Ala Thr Gly
130    135    140
Leu Gln Asp Ala Val Leu Thr Val Arg Lys Asp Ala Ala Phe Gly Val
145    150    155
Thr Val Asn Gly Val Ser Ala Met Pro Gly Glu Ser Lys Glu Leu Gln
165    170    175
Leu Asp Leu Gly Leu Gly Asp Ser Arg Ser Phe Pro Ile Phe Pro Ala
180    185    190
Val Ser Gly Leu Thr Gly Arg Ser Glu Phe Met Ile Asn Ile Glu Glu
195    200    205
Leu Lys
210

```

<210> 10699

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10699

Ser Cys Pro Pro Leu Ala Gly Arg Ala Ile His Gln Met Pro Ser Gly
 1 5 10 15
 Lys Pro Ser Ile Gln Ala Arg Asp Gln Arg Gly Leu Asn Ala Leu Lys
 20 25 30
 Glu Ala Val Pro Ala Thr Ala Gln Leu Gln Met Arg Val Thr Pro Glu
 35 40 45
 Arg Lys Leu Arg Tyr Val Asn Gln Ala Lys Ala Glu Gly Leu Gly Leu
 50 55 60
 Thr Asp Trp Val Gln Lys His Met Asp Asn Val Cys Asp Leu Ala Gly
 65 70 75 80
 Gln Pro Glu Ile Thr Met Tyr Lys Asp Asp Gly Glu Thr Ser Gly Gln
 85 90 95
 Lys

<210> 10700

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10700

Pro Leu Arg Thr Val Thr Ser Leu Gln Phe Ile Lys Trp Ile Tyr Ile
 1 5 10 15
 Tyr Lys Pro Ala Thr Leu Lys Ser Ile Val Gly Ile Phe Leu Phe Ser
 20 25 30
 Cys Ser Val Asp Asn Lys Ile Val Val Lys Arg Gln Tyr Phe Leu Val
 35 40 45
 Glu Ile Ala Gln Asn Leu Val Tyr Phe Ser Tyr Glu Phe Leu Val Leu
 50 55 60
 Trp Pro Val Tyr Ile Pro Arg Asp Gln Arg Leu
 65 70 75

<210> 10701

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10701

Ile His Leu Ile Asn Cys Asn Glu Val Thr Val Arg Asn Gly Gln Arg
 1 5 10 15
 Glu Val Trp Glu Met Arg Met Leu Pro Val Leu Pro Asp Glu Ser Leu
 20 25 30
 Phe Ser Arg Phe Cys Arg Thr Thr Thr Val Tyr Gly Met Ser Pro Ser
 35 40 45
 Ser Leu Leu Thr Ile Ile Phe Asn Lys Pro Asp Met Asn Val His Pro
 50 55 60
 Ile Leu Asn Ser Gly Leu Lys Ala Ile Ser Leu His Thr Ser Glu Ser
 65 70 75 80
 Ala Asp Gln Leu Trp His Glu Gln Thr Leu Leu Pro Leu Phe Ala Trp
 85 90 95
 Ala Leu Pro Ile Ser Arg Asn Glu Ile Leu Asp Phe Asn
 100 105

<210> 10702

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10702

Ser Leu Ser Ser Gly Ile Thr Pro Arg Leu Thr Thr Thr Asp Ser Pro
 1 5 10 15

Leu Ser Ser Ser Arg Met Met Phe Met Leu Leu Ser Cys Gln Ala Ala
 20 25 30
 Gly Lys Arg Val Lys Glu Pro Ser Trp Arg Val Tyr Phe Ile Ser Glu
 35 40 45
 Leu Gly Met Ile Tyr Ser Lys Asn Lys Ile Lys Ser Ala Lys Ile Tyr
 50 55 60
 Thr Ala Asn Ile Asn Tyr Cys Leu Ala Thr Gln Arg Asn Met Ile Ile
 65 70 75 80
 Arg Thr Leu Ala Leu Ser Phe Phe Pro Gln Lys Leu
 85 90

<210> 10703

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10703

Leu Leu Val Tyr Trp Leu Val Asp Met Phe Ser Ser Asn Leu Trp Met
 1 5 10 15
 Ser Lys Tyr Tyr Glu His Gln Arg Val Phe Ser Leu Leu Ile Tyr Pro
 20 25 30
 Pro Ile Phe Val Leu Tyr Asp Leu Phe Glu Lys Asn His Ile Leu Thr
 35 40 45
 Pro Thr Asp Pro Pro Thr Pro Ala His Ser Ala His Thr Gly Lys Gly
 50 55 60

65

<210> 10704

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10704

Leu Leu Ala Leu Arg Phe Val His Ser Gly Ile Lys Ile Met Leu Asn
 1 5 10 15
 Arg Ile Thr Val Gln Leu Pro Val Glu Gly Leu Leu Phe Trp Lys Leu
 20 25 30
 Ser Gly Arg Glu Ala Met Ser Glu Ser Phe Ala Leu Thr Leu Thr Val
 35 40 45
 Leu Gly Thr Asp Ala Arg Ile Asp Arg Ser Arg Leu Leu Gly Gln Pro
 50 55 60
 Val Thr Val Thr Ile Pro Thr Gln Asn Leu Leu Thr Ser Arg Tyr Val
 65 70 75 80
 Asn Gly Lys Ile Thr Arg Val Ala Val Ser Ala Val Glu Leu Thr Gly
 85 90 95
 Thr Arg Tyr Ala Val Tyr Gln Leu Thr Val Glu Pro Asp Leu Trp Pro
 100 105 110
 Met Lys Arg Asp Arg Asn Leu Arg Ile Phe Gln Arg Pro Asn Gly Thr
 115 120 125
 Gln Ile Val Lys Thr Leu Leu Gly Glu His Gln Val Lys Pro Pro Lys
 130 135 140
 Thr Thr His Arg Gln Leu Pro Gly Val Gly Leu Leu Arg Ala Val Ser
 145 150 155 160
 Gly Val Glu Pro Gly Leu His Gln Pro Pro Asp Gly Ala Gly Gly Asp
 165 170 175
 Cys Val Leu Leu Pro Pro
 180

<210> 10705

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10705

```

Ile Ile Pro Ser Ser Leu Met Lys Tyr Thr Leu Gln Glu Gly Ser Phe
1           5           10           15
Thr Leu Phe Pro Ala Ala Trp Gln Asp Asn Ser Met Asn Ile Ile Arg
20           25           30
Asp Asp Glu Ser Gly Leu Ser Val Val Val Ser Arg Gly Val Ile Pro
35           40           45
Asp Asp Ser Asp Tyr Glu Gln Glu Phe His Arg Gln Trp Asp Val Leu
50           55           60
Arg Pro Gln Met Gly Glu Ile Ala Gln Ser Glu Phe Gln His Val Lys
65           70           75           80
Ala Gly Pro Asp Gly Asn Ile Ser Gly Leu Glu Val Glu Thr Thr Phe
85           90           95
Asp Arg Asn Gly Gln Arg Leu Trp Gln Lys Gln Leu Ala Val Gln Thr
100          105          110
Pro Gly Lys Pro Val Leu Met Ile Phe Thr Leu Ser Ala Leu Lys Ala
115          120          125
Phe Thr Glu Glu Asp Glu Ala Arg Trp Ser Ala Leu Lys Gln Ser Leu
130          135          140
Thr Leu Asn Asp Asn Arg Asn Val
145          150

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<210> 10706

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10706

```

Pro Ile His Leu Phe Met Leu Thr Glu Phe Tyr Leu Met Gly Gly Tyr
1           5           10           15
Lys Met Ile Asp Phe Asn Ala Asp Ile Leu Ser Gly Arg Ala Leu Gly
20           25           30
Asn Val Phe Leu Gly Asp Asn Ile Ser Lys Tyr Ile Ser Glu Leu Tyr
35           40           45
Ala Gly Tyr Lys Val Thr Tyr Phe Asp Tyr Phe Leu Pro Asp Asp Lys
50           55           60
Lys Arg Leu Ala Tyr Ile Val Asp Asp Thr Met Thr Ile Ala Thr Leu
65           70           75           80
Glu Asp Gly Thr Ile Ile Ser Ile Gly Cys Asn Val Asn Tyr Lys Gly
85           90           95
Arg Tyr Asn Lys Ile Leu Gln Thr Gly Gln Thr Met Gly Glu Ile Ile
100          105          110
Gly Leu Thr Tyr Lys Gln Arg Ile Phe Asn Gly Cys Ile Ile Ile Asn
115          120          125
Asp Asp Phe Gly Phe Ser Phe Glu Leu Pro Ala Pro Tyr Asp Glu Ile
130          135          140
Ala Asp Ser Ile Ala His Val Pro Leu Asp Leu Val Leu Asn Glu Ile
145          150          155          160
Arg Val Ala Asp Tyr Ser Asp Trp Asn Pro Gln Lys Ile Lys Arg
165          170          175

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<210> 10707

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 10707

```

Ile Ile Met Ile Thr Met Glu Asp Ser Met Glu Ser Arg Met Ile Lys

```

1				5					10					15			
Ala	Thr	Phe	Leu	Ile	Val	Leu	Pro	Leu	Phe	Ser	Ile	Phe	Thr	Tyr	Ala		
			20					25					30				
Gly	His	Asn	Lys	Met	Asn	Gln	Asp	Ser	Leu	Trp	Gln	Met	Ile	Lys	Glu		
		35					40					45					
Met	Lys	Ser	Val	Trp	Gly	Lys	Gln	Val	Glu	Asp	Val	Ser	Lys	Leu	Phe		
	50					55					60						
Asn	Gln	Pro	Leu	Ile	Asn	Asn	Thr	Gln	Glu	Lys	Glu	Asp	Arg	Tyr	Thr		
65					70					75					80		
Ser	Ala	Pro	Phe	Thr	Leu	Thr	Asp	Gly	Thr	Arg	Ile	Ser	Asn	Val	Asp		
				85					90					95			
Val	Arg	Leu	Trp	Gly	Asn	Gly	Asp	Asn	Ser	Val	Ser	Leu	Val	Ser	Phe		
		100						105					110				
Val	Val	Asn	Gln	Pro	Cys	Ile	Thr	Leu	Asp	Gln	Val	Lys	Ser	His	Phe		
		115					120					125					
Pro	Asp	Leu	Lys	Leu	Ser	Asn	Ile	Pro	Arg	Gly	Asn	Thr	Pro	Gly	Gln		
	130					135					140						
Ser	Val	Gly	Tyr	Arg	Thr	Pro	Thr	Asp	Glu	Arg	Gly	Leu	Ala	Trp	Ala		
145					150					155					160		
Phe	Ser	Phe	Pro	Val	Leu	Asn	Gln	Glu	Cys	Leu	Gly	Arg	Val	Val	Met		
				165				170						175			
Ser	Arg	Tyr	Glu	Gln													
			180														

<210> 10708

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10708

Asn	Thr	Gln	Arg	Pro	Ser	Gln	Arg	Arg	Trp	Asp	Tyr	Tyr	Tyr	Arg	Asn		
1				5					10					15			
Asn	Leu	Val	Arg	Glu	Glu	Arg	Asp	Asp	Asn	Pro	Phe	Lys	Trp	Tyr	Arg		
		20					25					30					
Trp	Gln	Tyr	Asp	Arg	Gln	Cys	Arg	Ala	Ser	Pro	Gly	Ser	Gly	Arg	His		
	35					40						45					
Ala	Gly	Arg	Arg	Gly	Ala	Gly	Gly	Leu	Gly	Cys	Ser	Arg					
	50					55					60						

<210> 10709

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10709

Arg	Pro	Asn	Pro	Arg	Asn	Arg	Lys	Lys	Pro	Gln	Thr	Gln	Val	Ser	Phe		
1				5					10					15			
Arg	Tyr	Asp	Pro	Leu	Gly	Arg	Arg	Ile	Ser	Lys	Thr	Arg	Arg	Gln	Lys		
		20					25					30					
Leu	Gly	Gly	Gln	Pro	Thr	Gly	Lys	Pro	Ser	Pro	Pro	Gly	Val	Ser	Gly		
	35					40						45					
Asn	Asp	Cys	Leu	Leu	Gly	Glu	Ala	His	Gly	Asp	Val	Leu	Phe	Thr	Tyr		
	50				55					60							
Val	Asp	Glu	Ser	Gly	Gln	Asp	Asn	Tyr	Asp	Leu	Leu	Ala	Arg	Val	Asp		
65					70				75					80			
Ser	Val	Asp	Ala	Ser	Tyr	Ile	Phe	Trp	Val	His	Cys	Gln	Ser	Asn	Gly		
				85					90					95			
Thr	Ala	Gln	Leu	Ile	Thr	Asp	Ile										
			100					105									

<210> 10710

<211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10710

Cys	Phe	Ser	Ile	Thr	Ile	Ile	Trp	Asn	Lys	Asn	Lys	Ser	Leu	Gly	Asn
1				5					10					15	
Ile	Met	Ser	Asp	Lys	Ile	Met	Gln	Thr	Val	Asp	Leu	Leu	Ile	Ser	His
			20					25					30		
Ser	Gln	Ile	Leu	Leu	Arg	Ser	Arg	Asp	Tyr	Asp	Glu	Lys	Leu	Ser	Gln
		35					40					45			
Trp	Gly	Lys	Gly	Asn	Val	Ser	Gln	Gly	Ala	Val	Leu	His	Lys	Asp	Tyr
	50					55					60				
Ala	Val	Phe	Val	Leu	Leu	Pro	Gln	Gly	Thr	Gly	Ile	Arg	Ala	Met	Gln
65					70					75					80
Cys	Glu														

<210> 10711
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 10711

Leu	Pro	Phe	Trp	Val	Asn	Ser	Leu	Gly	Gly	Pro	Val	Asn	Arg	Glu	Glu
1				5					10					15	
Thr	Gly	Leu	Phe	Arg	Glu	Ile	Phe	Met	Lys	Ala	Arg	Glu	Ser	Val	Ile
			20					25					30		
Pro	Phe	Pro	Ile	Gly	Ile	Lys	Gly	Leu	Leu	Phe	Gln	Trp	Glu	Met	Arg
		35					40					45			
Pro	Val	Phe	Ala	Leu	Pro	Asp	Lys	Leu	Gly	Gly	Ile	Gln	Asn	Ser	Phe
	50					55					60				
Ile	Glu	Leu	Met	Asn	Val	Tyr	Ala	Glu	Lys	Thr	Gly	Ser	Asp	Gln	Tyr
65					70					75					80
His	Leu														

<210> 10712
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10712

Thr	Leu	Met	Gly	Phe	Leu	Arg	Arg	Trp	Phe	Lys	Ser	Gln	Ala	Gln	Phe
1				5					10					15	
Phe	Phe	Trp	Thr	Tyr	Val	Pro	Ile	Ile	Leu	Thr	Phe	Ile	Phe	Gly	Tyr
			20					25					30		
Val	Leu	Asp	Val	Tyr	Phe	Pro	Glu	Val	Ser	Gln	Gly	Phe	Ile	Leu	Leu
		35					40					45			
Phe	Tyr	Leu	Val	Thr	Leu	Gly	Leu	Ala	Tyr	Trp	Ile	Trp	His		
	50					55					60				

<210> 10713
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 10713

Leu	Ile	Gly	Cys	Trp	Thr	Gly	Arg	Arg	Arg	Leu	Ile	Asp	Ser	Val	Arg
1				5					10					15	
Ser	Gly	Ala	Leu	Ile	Leu	Thr	Leu	Ser	His	Arg	Ala	Glu	Gly	Ser	Pro

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<210> 10714
<211> 252
<212> PRT
<213> Enterobacter cloacae
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<210> 10715
<211> 242
<212> PRT
<213> Enterobacter cloacae
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<400> 10715
Ser Ala Arg Ser Val Ser Met Tyr His Ser Glu Glu Ile Ile Arg Gln
1 5 10 15

Leu Gln Ser Gln Lys Ile Leu Ala Met Lys Leu Asp Arg Ala Val Arg
 20 25 30
 Asp Val Gly Glu Glu Val Lys Ser His Leu Asn Asn Ile Gly Ala Gly
 35 40 45
 Ala Gln Arg Leu Leu Tyr Tyr Thr Ser Cys Phe Thr Asp Glu Tyr Tyr
 50 55 60
 Asp Val Cys Thr Arg Gln Asn Leu Glu Asp Ala Arg Phe Arg Lys Gly
 65 70 75 80
 Ile Phe His Leu Ile Ser Arg Trp Asn Ile Val Phe Asp Leu Ile Asn
 85 90 95
 Thr Tyr Val Glu Glu Leu Val Lys Asp Tyr Ser Pro Ala Glu Leu Ser
 100 105 110
 Ala Ile Gln His Ala Leu Met Arg Ala Asn Val Tyr Ile Ser Thr Ser
 115 120 125
 Thr Leu Thr Ser Tyr Ser Phe Ser Ala Gly Val Ala Ser Thr Val Cys
 130 135 140
 Leu Tyr Val Thr Leu Pro Pro Ser Gly Leu Lys Val Val Ser Gly Leu
 145 150 155 160
 Thr Gly Ala Ala Ile Gly Gly Leu Gly Ile Tyr Gly Val Val Gln Lys
 165 170 175
 Ala Ala Asp Ser Ala His Arg Leu Gln Val Met His Pro Ala Tyr Tyr
 180 185 190
 Gln Ala Leu Tyr Leu Gln Glu Leu Glu Met Met Tyr Phe Leu Val Glu
 195 200 205
 Pro Ala Phe Met Arg Ala Gly Val Leu Thr Gln Gln Trp Thr Asp Ser
 210 215 220
 Gln Ser Pro Tyr Asp Ala Ala Asp Thr Ile Leu Lys Leu Met Gly Arg
 225 230 235 240
 His

<210> 10716

<211> 639

<212> PRT

<213> Enterobacter cloacae

<400> 10716

Ser Ile Thr Asp Lys Asp Leu Thr Pro Met Lys Lys Met Leu Thr Leu
 1 5 10 15
 Ser Leu Leu Ala Leu Cys Val Ser His Gly Ala Ala Ala Ala Asn Tyr
 20 25 30
 Ala Leu Ser Asn Asp Asn Ile Ala Leu Ser Phe Asp Asp Ala Asn Ala
 35 40 45
 Thr Val Val Val Thr Asp Ser Lys Ser Asn His Pro Leu Thr Pro Gln
 50 55 60
 Glu Leu Phe Phe Leu Thr Leu Pro Asp Glu Thr Lys Ile His Thr Ala
 65 70 75 80
 Asp Phe Lys Ile Lys His Val Glu Lys Gln Asp Asn Ala Ile Val Ile
 85 90 95
 Asp Phe Thr His Pro Asp Phe Asn Val Thr Val Lys Leu Asn Leu Val
 100 105 110
 Lys Gly Lys Tyr Ala Ser Ile Gly Tyr Thr Ile Ala Ala Val Gly Gln
 115 120 125
 Pro Arg Asp Val Ala Lys Ile Thr Phe Phe Pro Thr Lys Lys Gln Ser
 130 135 140
 Gln Ala Pro Tyr Val Asp Gly Ala Ile Asn Ser Ser Pro Ile Val Ala
 145 150 155 160
 Asp Ser Phe Phe Ile Leu Pro Asp Lys Pro Ile Val Asn Thr Tyr Ala
 165 170 175
 Tyr Glu Ala Thr Thr Asn Leu Asn Val Glu Leu Lys Thr Pro Ile Leu
 180 185 190

Pro Glu Thr Pro Val Ser Phe Thr Thr Trp Phe Gly Thr Phe Pro Glu
 195 200 205
 Thr Asn Gln Leu Arg Arg Ser Val Asn Gln Phe Ile Asp Ala Val Arg
 210 215 220
 Pro Arg Pro Tyr Lys Pro Tyr Leu His Tyr Asn Ser Trp Met Asp Ile
 225 230 235 240
 Gly Phe Phe Thr Pro Tyr Ser Glu Gln Asp Val Ile Gly Arg Met Asp
 245 250 255
 Glu Trp Asn Lys Glu Phe Ile Ala Gly Arg Gly Val Ala Leu Asp Ala
 260 265 270
 Phe Leu Leu Asp Asp Gly Trp Asp Asp Arg Thr Gly Arg Trp Leu Phe
 275 280 285
 Gly Pro Ala Phe Ser Asn Gly Phe Gly Lys Val Arg Glu Lys Ala Asp
 290 295 300
 Ser Leu His Ser Ser Val Gly Leu Trp Leu Ser Pro Trp Gly Gly Tyr
 305 310 315 320
 Asn Lys Pro Arg Asp Ile Arg Val Ser His Ala Lys Glu Tyr Gly Phe
 325 330 335
 Glu Thr Val Asp Gly Lys Leu Ala Leu Ser Gly Pro Asn Tyr Phe Lys
 340 345 350
 Asn Phe Asn Asp Gln Ile Ile Lys Leu Ile Lys Asn Glu His Ile Thr
 355 360 365
 Ser Phe Lys Leu Asp Gly Met Gly Asn Ala Asn Ser His Ile Lys Gly
 370 375 380
 Ser Pro Phe Ala Ser Asp Phe Asp Ala Ser Ile Ala Leu Leu His Asn
 385 390 395 400
 Met Arg Ser Ala Asn Pro Asn Leu Phe Ile Asn Leu Thr Thr Gly Thr
 405 410 415
 Asp Ala Ser Pro Ser Trp Leu Phe Tyr Ala Asp Ser Ile Trp Arg Gln
 420 425 430
 Gly Asp Asp Ile Asn Leu Tyr Gly Pro Gly Thr Pro Val Gln Gln Trp
 435 440 445
 Met Thr Tyr Arg Asp Ala Glu Thr Trp Arg Ser Ile Val Arg Lys Gly
 450 455 460
 Pro Leu Phe Pro Leu Asn Ser Leu Met Tyr His Gly Ile Val Ser Ala
 465 470 475 480
 Glu Asn Ala Tyr Tyr Gly Leu Glu Lys Val Gln Thr Asp Ser Asp Phe
 485 490 495
 Ala Asp Gln Val Trp Ser Tyr Phe Ala Thr Gly Thr Gln Leu Gln Glu
 500 505 510
 Leu Tyr Ile Thr Pro Ser Met Leu Asn Lys Ala Lys Trp Asp Thr Leu
 515 520 525
 Ala Gln Ala Ala Lys Trp Ser Arg Glu Asn Ala Ser Val Leu Val Asp
 530 535 540
 Thr His Trp Ile Gly Gly Asp Pro Thr Ser Leu Gln Val Tyr Gly Trp
 545 550 555 560
 Ala Ser Trp Ser Lys Asp Lys Ala Ile Phe Gly Leu Arg Asn Pro Ser
 565 570 575
 Asp Lys Pro Gln Arg Tyr Tyr Leu Asp Leu Thr Lys Asp Phe Glu Ile
 580 585 590
 Pro Ala Gly Glu Arg Ser Gln Phe Thr Leu Lys Ala Val Tyr Gly Ser
 595 600 605
 Asn Ser Thr Val Pro Glu Glu Tyr Lys Asn Ala Val Val Ile Thr Leu
 610 615 620
 Gln Pro Leu Glu Thr Leu Val Phe Glu Ala Met Pro Gly Lys
 625 630 635

<210> 10717

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10717

Thr Ser Thr Cys Ile Ala Arg Leu Leu Pro Pro Pro Val Val Lys Ile
 1 5 10 15
 Tyr Pro Gly Arg Thr Gly Ala Gly Gly Arg Thr Arg Leu Ala Val Pro
 20 25 30
 Ala Cys Gly Trp Arg Tyr Arg Gln His Ala Asp Val Gly Asp Cys Asp
 35 40 45
 Gly Gly Gly Arg Leu Pro Val Arg Asp Pro Asn Arg Gly Gly Asp Pro
 50 55 60
 Asp Tyr Ser Asp His Asp Asp Gly Arg Tyr Gly Asp Arg Thr Ser Ala
 65 70 75 80
 Gly Ala Ala His His Ala Ala Gly Gly Glu Pro Ala Val Ala Tyr His
 85 90 95
 Ala Ala

<210> 10718

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 10718

Ala Trp Ala Leu Gly Phe Lys Ala Ile Asn His Ala Gly Ser Lys Met
 1 5 10 15
 Leu Cys Val Gly Gly Gly Arg Ala Ile Ala Thr Thr Glu Asp Phe Val
 20 25 30
 Ala Val Glu Gln Arg Leu Asn Gln Cys His Arg Cys Thr Arg Asp Arg
 35 40 45
 Val Arg Lys Gly Phe Arg Arg Gly Asn Leu Arg Leu Asn Ala Phe Cys
 50 55 60
 Glu Ala His Phe Asn Ser Phe Glu His Gly Ile Pro Leu Lys Ser Tyr
 65 70 75 80
 Leu Cys Val Phe Ala Lys Arg Val Phe Lys Pro Val Asp Arg Ile Ser
 85 90 95
 Gly Glu Gly Tyr His Ile Glu Thr Ala Ile His Ser Ile Lys Thr Pro
 100 105 110
 Ile Met Ala Gly Lys Pro Gln Val Gly Ser Leu
 115 120

<210> 10719

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10719

Val Asp Asn Val Leu His Gln His Ser Trp Lys Arg Ala Ala Ala Leu
 1 5 10 15
 Thr Ala Leu Phe Ala Ile Leu Leu Ile Val Val Ala Pro Leu Ile Ser
 20 25 30
 Val Ser Leu Gln Lys Asp Pro Met Ser Ala Met Pro Gly Met His His
 35 40 45
 Asp Met Ser Met Met Ser Val Asp Glu His His Gly Asp Met Pro His
 50 55 60
 Ser Met Pro Val Asp His Ala Glu Ala Cys Gly Tyr Cys Val Leu Leu
 65 70 75 80
 Ala His Val Pro Gly Val Met Leu Ala Leu Ile Val Leu Leu Ser Val
 85 90 95
 Val Leu Gln Arg Leu Arg Val Lys Pro Pro Arg Gln Ala Val Ser His
 100 105 110
 Trp His Phe Phe Pro Trp Leu Tyr Pro Asp Thr Arg Ala Pro Pro Arg

115 120 125
 Arg Ser Ala Phe Ser Leu
 130 135

<210> 10720
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 10720
 Arg Gly Ser Ile Asn Trp Leu Ser Cys Pro Ser Ala Arg Asp Trp Ala
 1 5 10 15
 Ser Ala Arg Ala Ser Trp Asn Leu Leu Val Arg Arg Ser Arg Arg Ile
 20 25 30
 Thr Pro Pro Ile Thr Gly Gln Ile Cys Tyr Trp Arg Leu Asn Glu Val
 35 40 45
 Ile Pro Gln Leu Phe Lys Val Asn Asn Leu Asn Tyr Val Lys Arg Lys
 50 55 60
 Arg Arg Val Pro Asp Arg Leu Asp Ser Leu Gly Tyr Ile Ser Gln Met
 65 70 75 80
 Lys Leu Ala Ile Arg Pro Val Val Leu Ser Arg Arg
 85 90

<210> 10721
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 10721
 Leu Leu Lys Cys Lys Phe Met Ser Ala Leu Arg Ile Glu Leu Glu Lys
 1 5 10 15
 Gly Phe Thr Asn Glu Gly Val Val His Glu Leu Ser Trp Ile Pro Gly
 20 25 30
 Val Gln Thr Gly Arg Gly Leu Cys Ala Ile Pro Pro Gly Lys Gly Ile
 35 40 45
 Asp Leu Trp Gln Lys Lys Pro Arg Lys Thr Gln Ser Phe Thr Tyr Arg
 50 55 60
 Phe Ala Ser Tyr Ala Phe Phe Cys Ile His Pro Glu Asp Lys Ser Phe
 65 70 75 80
 Ser Gly Ile Thr Thr Gln Cys His Thr Pro Glu Asn Cys Tyr Glu Cys
 85 90 95

<210> 10722
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10722
 Ser Gly Phe Asn Lys Ser Leu Asn Arg Val Tyr Ser Gly Val Val Tyr
 1 5 10 15
 Cys Thr Lys Arg Ser Arg Glu Arg Met Leu Gln Arg Thr Tyr Asp Ser
 20 25 30
 Ile Arg Phe Ser Gly Ser Ala Tyr Val Ala Gly Tyr Arg Arg Val Gln
 35 40 45
 Ala Ala Tyr Ala Ala Ser Arg Val Ser Pro Leu Ser
 50 55 60

<210> 10723
 <211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10723

Thr	Ser	Leu	Gly	Thr	Gly	Gly	Ser	Thr	Val	Met	Gln	Val	Pro	Glu	Leu
1				5					10					15	
Thr	Asp	Asp	Ala	Val	Val	Glu	Leu	Ala	Arg	Glu	Gly	Gly	Val	Ala	Phe
			20					25					30		
Ile	Pro	Lys	Leu	Ser	Gly	Gln	Arg	Thr	Ile	Ala	Leu	Ser	Thr	Leu	Asn
		35					40					45			
Glu	Ala	Gln	Arg	Gln	Arg	Val	Val	Asn	Ile	Leu	Glu	Gln	Ala	Ile	Pro
	50					55					60				
Arg	Gly	Gln	Pro	Pro	Gly	Gln	Ala	Ser	Ser	Pro	Gly	Ser	Gly	Asp	Gln
65					70					75					80
Arg	Tyr	Phe	Arg	Ile	Gln	Ile	Ile	Trp	Thr	Arg	His	Asn	Gln	Ala	Gln
			85					90						95	
Tyr	Thr	Asp	Ile	Ile	Val	Leu	Val	Pro	Glu	Gln	Glu	Ala	Pro	Glu	Ser
			100					105					110		
Leu	Ile	Glu	Leu	Trp	Gln	Lys	Gly	Glu	Gly	Cys	Val	Cys	Asp		
		115					120					125			

<210> 10724

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10724

Arg	Phe	Ile	Lys	Gly	Ile	Leu	Arg	Val	Asp	Ile	His	Asp	His	Thr	Gln
1				5					10					15	
Ile	Ser	Glu	Gln	Gly	Val	Ala	Asp	Leu	Ala	Asp	Thr	Glu	Phe	Ala	
			20					25				30			
Gly	Asn	His	Ser	His	Leu	Pro	Gly	Asn	Ile	Thr	Tyr	Thr	Leu	Cys	Ala
		35					40					45			
Gly	Asn	Ile	Ser	Leu	Phe	Lys	Leu	His	Asp	Ala	Thr	Gly	Lys	Pro	Phe
	50					55				60					
Gln	Ile	Gln	Pro	Phe	Arg	Val	Gly	Ser	Asp	His	Arg	Val	Ile	Gly	Gly
65					70					75					80
Leu	Thr	Glu	Leu	Leu	Tyr	Lys	Leu	Tyr	Ile	Thr	Thr	Arg	Ile	Tyr	Cys
			85					90						95	
Gly	Ile	Gly	Asp	Asp	Phe	Leu	Glu								
			100				105								

<210> 10725

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10725

Phe	Pro	Leu	Arg	Asp	Ser	Asp	His	Lys	Phe	Ser	Ile	Pro	Ile	Phe	Ser
1				5					10					15	
Leu	Glu	Pro	Val	Pro	Ser	Ser	Val	Ile	Leu	Ser	Ile	Thr	Leu	Trp	Ser
		20						25				30			
Gln	Glu	Met	Ser	Arg	Lys	Ile	Met	Val	Val	Thr	Ala	Ala	Tyr	Gly	Ala
		35					40					45			
Asp	Gln	Val	Arg	Gln	Ala	Gly	Gly	Gln	Arg	Ala	Met	Leu	Pro	Val	Ile
	50					55				60					
Ala	Gly	Ala	Gly	Ala	Asp	Gly	Val	Glu	Ile	Arg	Arg	Glu	Leu	Phe	Ser
65					70					75					80
His	Asp	Glu	Leu	Met	Ala	Leu	Pro	Ala	Leu	Gly	Glu	Ser	Ile	Glu	Leu
			85					90						95	
Leu	Gly	Leu	Leu	Ala	Cys	Tyr	Ser	Ala	Pro	Ala	Pro	Leu	Phe	Met	Pro

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<210> 10726
<211> 96
<212> PRT
<213> Enterobacter cloacae
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<210> 10727
<211> 249
<212> PRT
<213> Enterobacter cloacae
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<400> 10727															
Gly	Gly	Thr	Met	Asn	Asp	Ala	Ile	Ile	Thr	Asp	Asn	Glu	Arg	Ile	Asn
1				5					10					15	
Ile	Glu	Pro	Lys	Asp	Val	Met	Val	Lys	Gly	Ser	Asn	Lys	Lys	Gln	Gly
			20					25					30		
Val	Asn	Ala	Gln	Thr	Ser	Thr	Gln	Arg	Arg	Pro	Glu	His	Gln	Gly	Met
		35					40					45			
Ala	Lys	Val	Ile	Ile	Asn	Pro	Gly	Thr	Pro	Asp	Phe	Asn	Arg	Phe	Leu
	50					55					60				
Thr	Ala	Arg	Asn	Gly	Ala	Val	Ile	Arg	Gly	Phe	Asp	Asp	Val	Ser	Ile
65				70						75				80	
Ala	Ile	Ser	Ser	Leu	Phe	Lys	Thr	Val	Asp	Ala	Val	Lys	His	Pro	Asp
				85					90					95	

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Leu Val Gln Ala Ile Gln Asp Trp Phe Asn Glu Leu His Glu Glu Asn
      100      105      110
Asn Lys Met Lys Glu Asn Leu Val Ala Tyr Ile Lys Ser Ile Glu Phe
      115      120      125
Asp Lys Asn Asp Ser Phe Met Ser Ser Thr Gln Phe Val Pro Phe Ser
      130      135      140
Phe Glu Pro Val Gln Leu Asn Phe Asn Asn His Asn Thr Met Arg Phe
      145      150      155      160
Tyr Lys Tyr Ile Phe Glu Met Asn Gln Leu Met Asn Thr Met Tyr Glu
      165      170      175
Tyr Asn Ser Leu Gly Leu Leu Ala Val Ser Asp Tyr Pro Val Met Ser
      180      185      190
His Asn Ile Ile Lys Ser Ile Asn Leu Tyr Val Glu Asn Val Lys Lys
      195      200      205
Thr Leu Asn Val Ser Arg Arg Lys Asp Gly Pro Tyr Ser Pro Ala Glu
      210      215      220
Phe Ile Thr Lys Val Met Gln Tyr Lys Ser Val Gln Ala Tyr Ile Ala
      225      230      235      240
Ala Glu Leu Ser Gly Lys Arg Arg
      245

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<210> 10728

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10728

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Gly Met Met Met Asn Phe Arg Ala Leu Tyr Leu Cys Ile Lys Arg Ile
1      5      10      15
Leu Gly Ile Phe Ser Ser Gln Glu Asn Asp Ala Thr Ser Val Met Ile
      20      25      30
Glu Asp Ile Ser Ser Leu Ser Pro Phe Ala Gln Ile Leu Gly Asp Gln
      35      40      45
Lys Tyr Thr Val Pro Asp His Pro Asn Pro Glu Val Leu Lys Phe Ile
      50      55      60
Glu Tyr Pro Thr Arg Pro Thr Gly Ile Gln Thr Phe Asn Glu Gln Ser
      65      70      75      80
Ile Leu Ser Leu Tyr Arg Glu Lys Leu His Ser Ile Ser Met Met Leu
      85      90      95
Ala Ile Ser Asp Ser Asp Ile Arg Asp Asp Ala Tyr Thr Phe Thr Asn
      100      105      110
Leu Val Leu Lys Pro Leu Val Glu Tyr Val Arg Trp Ile His Leu Leu
      115      120      125
Pro Ala Ser Glu Asn His His His Asn Gly Ile Gly Gly Leu Leu Ser
      130      135      140
His Ser Leu Glu Val Ala Ile Leu Ser Leu Lys Asn Ala His His Ser
      145      150      155      160
Glu Leu Arg Pro Ile Gly Tyr Gln Asp Glu Glu Val Val Arg Arg Lys
      165      170      175
Val Tyr Leu Tyr Ala Ala Phe Ile Cys Gly Leu Val His Asp Ala Gly
      180      185      190
Lys Val Tyr Asp Leu Asp Ile Val Ser Leu Asn Leu Ala Ser Pro Ile
      195      200      205
Ile Trp Thr Pro Ser Ser Gln Ser Leu Leu Asp Trp Ala Arg Glu Asn
      210      215      220
Asp Val Val Glu Tyr Glu Ile His Trp Arg Lys Arg Ile His Asn Gln
      225      230      235      240
His Asn Ile Trp Ser Ser Val Phe Leu Glu Arg Ile Leu Asn Pro Val
      245      250      255
Cys Leu Ala Phe Leu Asp Arg Val Asn Lys Glu Arg Val Tyr Ser Lys
      260      265      270

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Met Ile Thr Ala Leu Asn Val Tyr Thr Asp Gly Asn Asp Phe Leu Ser
 275 280 285
 Lys Cys Val Arg Thr Ala Asp Phe Tyr Ser Thr Gly Thr Asp Leu Asn
 290 295 300
 Val Leu Arg
 305

<210> 10729

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 10729

Arg Pro Leu Pro Asn Gly Gly Asn Ser Glu Cys Ile Thr Ser Val Gln
 1 5 10 15
 Phe Pro His Gln Arg Ala Phe Lys Asn Leu Leu Phe Val Lys Lys Asn
 20 25 30
 Gly Asn Phe Leu Arg Tyr Ser Asn Phe Thr Ser Gly Gly Val Met Ser
 35 40 45
 Asn Ser Asn Leu Ile Ser Ser Ile Glu Leu Thr Arg Lys Asn Leu Arg
 50 55 60
 Ala Gln Ile Glu Gly Leu Arg Val Glu Ala Glu Asp Leu Ile Thr Lys
 65 70 75 80
 Tyr Trp Ile Lys Trp Lys Glu Arg Asn His Gln Glu Ile Asn Leu Thr
 85 90 95
 Arg His Ser Lys Val Pro Lys Arg Glu Tyr Leu Gly Ser Tyr Ala Pro
 100 105 110
 Lys Val Glu Leu Ile Gly Asn Ala Arg Lys Val Thr Ile Thr Trp His
 115 120 125
 Gln Phe Ser Pro Tyr Lys Thr Arg Ala Pro Ser His Met Ser Lys Arg
 130 135 140
 Val Gln Pro Met Lys Ser Gly Lys Tyr Ser Lys Asn Cys Phe Val Asn
 145 150 155 160
 His Ala Ser Trp Glu Tyr Glu Met Ile Ser Glu Thr Glu Ala Leu Leu
 165 170 175
 Glu Pro Tyr Arg Glu Met Leu Glu Leu Tyr His Ser Ala Tyr Ile Glu
 180 185 190
 Leu Gly Arg Lys Ile Arg Gln Tyr Ser Lys Thr Lys Val Ala Gln
 195 200 205

<210> 10730

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10730

Leu Asn Ile Ser Asn Lys Ile Phe Phe His Leu Ile Val Phe Phe Met
 1 5 10 15
 Gln Leu Val Glu Pro Ile Leu Asn Ser Leu Asn Lys Val Arg Met Phe
 20 25 30
 Asn Cys Ile Asn Arg Phe Lys Glu Arg Gly Asn Ser Asp Thr His Ile
 35 40 45
 Ile Lys Thr Ser Asp Asp Cys Ser Ile Ser Gly Ser
 50 55 60

<210> 10731

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10731

Ser Ser Lys Ile Ser Ile Ala Phe Gly Thr Leu Ser Lys Val Lys Gly
 1 5 10 15
 Arg Ser Val Ile Asp Thr Arg Cys Glu Val Met Lys Pro Pro Ala
 20 25 30
 Ile Phe Asn Lys Ser Phe Phe Asp Ser Lys Ser Lys Ser Lys Leu Leu
 35 40 45
 Thr Phe Ile Thr Ser Leu Ser Asp Leu Ala Phe Lys Thr Lys Glu
 50 55 60

<210> 10732

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10732

Leu Glu Gln Phe Gln Arg Val Ser Leu Phe Ala Phe Pro Trp Leu Phe
 1 5 10 15
 Pro Ile Thr Val Cys Arg Val Asn Lys Ser Leu Trp Gly Glu Ile Val
 20 25 30
 Cys Ser Ala Asp Ala Phe Asn Ala Asp Asp Gln Trp Tyr Asp Val Val
 35 40 45
 Arg Arg Ala Asp Asn Ala Val Ile Tyr Ser Phe Pro Ala Glu Gly Arg
 50 55 60
 Tyr Leu Val Tyr Arg Val Asn Gly Ile Val Ser Leu Arg Pro Leu Leu
 65 70 75 80
 Glu Glu Glu Glu Ile Phe Thr Leu Asn Gly Phe Met Gln Phe Ala Lys
 85 90 95
 Arg Leu Gly Tyr Arg Ile Thr Pro Pro Ser Asp Ile Ile Leu Ser
 100 105 110

<210> 10733

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10733

Cys Ala Thr Glu Arg Thr Met Ala Leu Glu Leu Gln Leu Ile Lys His
 1 5 10 15
 His Ser Gly Ile Leu Ile Pro Ala Thr Pro Glu Thr Ser Asp Ile Leu
 20 25 30
 Gln Ser Lys Thr Arg Leu Gly Asp Val Leu Val Ala Glu Phe Arg Arg
 35 40 45
 Val Arg Lys Pro Ala Phe His Arg Arg Phe Phe Ala Leu Leu Asn Leu
 50 55 60
 Gly Phe Glu Tyr Trp Glu Pro Thr Gly Gly Ala Ile Ser Ser Asn Glu
 65 70 75 80
 Arg Lys Leu Ile Thr Gly Tyr Ala Lys Leu Leu Ala Ser Tyr Gly Gly
 85 90 95
 Asn Glu Gly Ala Leu Ile Asp Ala Ala Glu Gln Tyr Leu Glu Gln Val
 100 105 110
 Ala Tyr Arg Arg Val Thr Asn Gly Ile Ser Leu Cys Lys Ser Phe Asp
 115 120 125
 Ala Tyr Arg Ser Trp Val Ile Val Glu Ala Gly His Phe Asp Ala Ile
 130 135 140
 Gln Leu Pro Asp Gly Thr Leu Lys Lys His Pro Arg Ser Ile Ser Phe
 145 150 155 160
 Ala Asn Met Asp Glu Phe Glu Phe Gln Gln Leu Tyr Lys Ala Ala Leu
 165 170 175
 Asp Val Leu Trp Arg Trp Val Leu Ser Arg Ser Phe Arg Ser Arg Asp
 180 185 190
 Glu Ala Glu Asn Val Ala Ala Gln Leu Leu Gly Phe Ala Gly

195

200

205

<210> 10734

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10734

Ala	Glu	Gly	Arg	Phe	Ser	Arg	Thr	Phe	Leu	Gln	Ser	Val	Gln	Pro	Ala
1				5				10					15		
Arg	Gly	Asn	Glu	Cys	Cys	Asp	His	Phe	His	Arg	Glu	Ala	Pro	Gly	Thr
		20					25					30			
Thr	Pro	Ser	Val	Ile	Ala	Asn	Leu	Ala	Ile	Tyr	Ala	Cys	Phe	Ser	Glu
		35					40					45			
Gln	Ala	Phe	Phe	Ser	Phe	Ile	Asn	His	Pro	Phe	Asp	Leu	Leu	Pro	Val
	50					55					60				
Asp															
65															

<210> 10735

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10735

Lys	Gln	Met	Ala	Gly	His	Ser	Glu	Glu	Met	Val	Cys	Tyr	Glu	Arg	Glu
1				5				10					15		
Ala	Asp	Ser	Thr	Val	Asp	Phe	Ile	Asn	Thr	Gln	Gly	Leu	Leu	Leu	Lys
		20					25					30			
Ile	Val	Ile	Gln	Phe	Tyr	Cys	Met	Arg	Tyr	Pro	Ile	Ile	Val	Leu	Pro
		35					40					45			
Phe	Tyr	Ser	Phe	Ile	Val	Ser	Phe	Ile	Tyr	Asp	Ile	Asn	Gly		
	50					55					60				

<210> 10736

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10736

Ile	Tyr	Ile	Leu	Ala	Ile	Leu	Ser	Arg	Val	Ala	Cys	Pro	Ser	Lys	Arg
1				5				10					15		
Leu	Tyr	Cys	Ala	Cys	Ser	Gly	Glu	Asn	Leu	Pro	Ile	Leu	Phe	Ser	Gly
		20					25					30			
Tyr	Arg	Ala	Ser	Leu	Pro	Phe	Ser	Trp	Ala	Glu	Glu	Val	Thr	Arg	Val
		35					40					45			
Ser	Glu	Thr	His	Ala	Ser	Asp	Glu	Ala	Tyr	Ser	Ala	Ala	Leu	Ser	Val
	50					55					60				
Phe	Gly	Glu	Lys	Asp	Leu	Val	Glu	Leu	Thr	Ile	Val	Ile	Ala	Thr	Met
65					70				75						80
Asn	Ala	Ile	Asn	Arg	Met	Gly	Ile	Ser	Phe	Arg	Met	Lys	Pro	Leu	Ala
				85					90					95	
Lys	Ala														

<210> 10737

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10737

Ala	Ser	Leu	Lys	Ser	Pro	Pro	Leu	Ala	Val	Lys	Arg	His	Leu	Met	Lys
1				5					10					15	
Leu	Arg	Ile	Thr	Arg	Ala	Ile	Gly	Leu	Ser	Lys	Phe	Ser	Pro	Arg	Trp
			20					25					30		
Val	Lys	Val	Ile	Cys	Leu	Arg	Leu	Thr	Lys	Asn	Asp	Ile	Glu	Arg	Ser
		35					40					45			
Leu	Asn	Ala	Leu	Leu	Ala	Thr	Ile	Asp	Glu	Ser	Glu	Leu	Thr	Pro	Glu
	50					55					60				
Gln	Val	Lys	Ala	Leu	Arg	Glu	Cys	Ile	Asp	Arg	Ile	Asn	Ile	Ala	Arg
65					70					75					80
Gly	Lys	Gly	Met	Gln	Ala										
				85											

<210> 10738

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 10738

Trp	Arg	Lys	Asp	Asn	Gln	His	Thr	Ser	Glu	Ser	Asp	Asn	Leu	Ser	Arg
1				5					10					15	
Ser	Leu	Leu	Gly	Lys	Leu	Phe	Arg	Ser	Glu	Ile	Ser	Leu	Ile	Ser	Ser
			20					25				30			
Tyr	Arg	Ala	Cys	Leu	Met	Leu	Leu	Leu	Val	His	Gly	Tyr	Ser	Ala	Tyr
		35					40					45			
Gln	Thr	Gly	Thr	Pro	Leu	Leu	Gln	Arg	Arg	Leu	Phe	Gly	Lys	Gly	Phe
	50					55					60				
Ser	Thr	Ala	Ala	Asp	Leu	Ala	Phe	Glu	Val	Glu	Thr	Arg	Pro	Gly	Ser
65				70					75						80
Phe	Leu	Val	Pro	Arg	Thr	Leu	Gly	Lys	Glu	Ile	Thr	Trp	Glu	Arg	Phe
				85					90					95	
Phe	Ser	Ala	Val	Leu	Asp	Gly	Asp	Ser	Asn	Val	Ile	Arg	Glu	Tyr	Asp
		100						105					110		
Thr	Asn	Asp	Ile	Asp	Tyr	Gly	Ile	Tyr	Asp	Ala	Gly	Glu	Lys	Val	Thr
		115					120					125			
Phe	Leu	Asn	Gly	Thr	Val	Asp	Ile	Tyr	Asn	Pro	Lys	Lys	Ile	His	Glu
	130					135					140				
Leu	Arg	Ser	Lys	Cys	Val	Asp	Ile	Gln	Asn	Asp	Tyr	Phe	Met	Gln	Val
145					150					155					160
Phe	Phe	Ile	Ser	Met	Leu	Ala	Pro	Glu	Phe	Val	Ser	Ile	Phe	Phe	Gly
				165					170					175	
Leu	Lys	Pro	Thr	Thr	Ala	Asp	Ala	Ile	Lys	Asp	Ile	Gly	Tyr	Ser	Ser
			180					185					190		
Leu	Lys	Thr	Ile	Asn	Asp	Val	Val	Leu	Phe	Pro	Arg	Thr	Ile	Ala	Phe
		195					200					205			
Ser	Gln	Gly	His	Ile	Glu	Glu	Ser	Val	Ser	Leu	Lys	Thr	Lys	Val	Phe
	210					215					220				
Ala	Trp	Ala	Tyr	Glu	Leu	Ser	Ala	Asp	Ile	Arg	Leu	Gly	Lys	Val	Ser
225					230					235					240
Asp	Asp	Leu	Met	Glu	Leu	Leu	Arg	Tyr	Asp	Thr	Met	Phe	Thr	Ser	His
				245					250					255	
Arg	Gln	Asp	Val	Phe	Asn	Thr	Leu	Thr	Asn	Lys	Val	Met	Leu	Lys	Asp
			260					265					270		

Tyr

<210> 10739

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10739

Gly Asn Lys Met Lys Lys Leu Met Met Leu Val Ile Ser Gly Thr Val
 1 5 10 15
 Leu Ala Gly Cys Val Ser Pro Ala His Ala Ile Asn Ala His Tyr Arg
 20 25 30
 Ala Gln Leu Glu Arg Ser Gly Cys Thr Gln Ile Ser Ala Gly Asn Gly
 35 40 45
 Ser Cys Asp Val Ser Lys Thr Lys Ala Glu Asn Thr Ala Gln His Glu
 50 55 60
 Pro Thr Ala Ser Val His Asp Pro Leu Arg Glu Ala Ser Phe Ser Ser
 65 70 75 80
 Asp Thr Val Asn Ala Thr Leu Ser Asn Gly Phe Phe Ser Ala Thr Val
 85 90 95
 Asn Gly Lys Lys Ala Ser Val Lys Arg Leu Asn Ala Asn Phe Tyr Glu
 100 105 110
 Ile His Gly Asn Gly Phe Val Ile Ser Ile Ser Leu Asp Glu Asn Gly
 115 120 125
 Ile Thr Asp Ala Ser Trp Asn Lys Thr Lys Gly Arg Glu His Gly Val
 130 135 140
 Leu Arg Val Ser Gln Lys
 145 150

<210> 10740

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10740

Gly Val Val Leu Glu Trp Lys Glu Ser Phe Arg Tyr Val Phe Asp Asn
 1 5 10 15
 Gln Tyr Tyr Lys Lys Ile Phe Leu Leu Asn Glu Lys His Asn Ser Leu
 20 25 30
 Phe Asp Ile Val Phe Asn Tyr Tyr Ala Ile Ile Trp Leu Arg Ile Phe
 35 40 45
 Thr Gly Ser Ala Ser Gly Ser Cys Trp Lys Thr Gly Asp Asp His Arg
 50 55 60
 Lys Cys Lys Arg Ser Ser Gly Glu Ala Asp
 65 70 75

<210> 10741

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10741

Lys Val Lys Lys Gln Met Gly Pro Glu Lys Asn Ala Ala Asn Ile Glu
 1 5 10 15
 Pro Phe Val Thr Gly Leu Asn Gly Leu Phe Val Tyr Cys Phe Val Thr
 20 25 30
 Gln Gly Thr Gly Gln Gly Arg Thr Pro Phe Val Trp Gly Arg Leu His
 35 40 45
 Phe Met Leu Asn Lys Asn Ser Ser Leu Arg Met Ile Cys Gln His Cys
 50 55 60
 Lys Ile Arg Gln Lys Ser Val Thr Asn Arg Ala Ile Gly Arg Arg Lys
 65 70 75 80
 Gly Gly Arg Glu Pro Tyr Ala Val Tyr Phe
 85 90

<210> 10742

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10742

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Ile Tyr His Phe His Leu Trp Thr Leu Val Ile Ala Phe Tyr Thr Phe
1          5          10          15
Ser Phe Glu Ser Ile Phe Cys Ile Ile Asp Asn Ile Asn Phe Ser Leu
          20          25          30
Gln Gly Glu Leu Met Ser Asn Ile Asp Ala Thr Ala Val Ala Gln Arg
          35          40          45
Ile Asp Thr Val Leu Asp Ile Leu Val Ala Gly Asp Tyr His Ser Ala
          50          55          60
Ile Arg Asn Leu Glu Ile Leu Lys Ser Glu Leu Leu Ala Glu Asn Gly
65          70          75          80
Ala Asp Asn Ala Pro Glu Ser Thr Gln Pro Lys Ala Pro Trp Glu Val
          85          90          95

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<210> 10743

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10743

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Gln Leu Val Ala Lys His Met Pro Ile Gly Ile Val His Phe Phe Lys
1          5          10          15
Ile Ile Gln Ile Glu Val Asn Tyr Ala Asn Leu Arg Val Thr Pro Ser
          20          25          30
Gly Asp Gly Ile Arg Asp Gln Leu Met Asp Gly Ile Ser Val Arg Gln
          35          40          45
Thr Gly Asn Arg Ile Arg Ile Gly Glu Asn Ala Gln Ala Leu Leu Gly
          50          55          60
Pro Thr Leu Leu Gly Tyr Val Gly Thr
65          70

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<210> 10744

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10744

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Arg Glu Leu Ile Met Ser Gln Glu Leu Glu Phe Ser Leu His Pro Pro
1          5          10          15
Val Trp Pro Ala Ile Val Tyr Phe Val Val Ser Val Ala Ile Phe Phe
          20          25          30
Leu Leu Tyr Leu Gly Lys Leu Lys Val Asn Arg Leu His Lys Tyr Pro
          35          40          45
Leu Phe Ile Ala Tyr Leu Val Phe Val Ile Ala Val Ala Ala Val Gln
          50          55          60
Ile Asn Ile Phe Ala Asn Gly Tyr Glu Phe Val Arg Ser Phe Leu His
65          70          75          80
Ile Asp Phe Asp Pro Tyr Arg Tyr Asp Ser Val Tyr Trp Gly Ser Leu
          85          90          95
Phe Phe Ser Ile Ile Tyr Leu Leu Ala Leu Pro Arg Asn Lys Phe
          100          105          110

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<210> 10745

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10745

Lys Ala Ala Cys Trp Pro Leu Pro Phe Arg Glu Ala Ile Ala Thr Gly
 1 5 10 15
 Asp Gly Tyr Tyr Leu Val Trp Pro Lys Asn Ser Leu Lys Arg Glu Ser
 20 25 30
 Ile Gln His Leu Leu Ala Trp Leu Gln Asn His Thr Pro Val Val Pro
 35 40 45
 Ala Leu Asp Ile Asp Tyr Leu Glu Tyr Asp Asp Ser Arg Val Tyr
 50 55 60

<210> 10746

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 10746

Lys Cys Val Cys Leu Ile Val Arg Leu Ser Gly Lys Ser Ile His Ser
 1 5 10 15
 Gly Ile Ala Arg His Ala Phe Arg Arg Asp Lys Met Lys Ile Ala Leu
 20 25 30
 Met Met Glu Asn Ser Gln Ala Ala Lys Asn Pro Ile Ile Leu Asn Glu
 35 40 45
 Leu Lys Ala Val Ala Asp Glu Lys Gly Phe Pro Val Tyr Asn Val Gly
 50 55 60
 Met Ser Asp Glu Asn Asp His His Leu Thr Tyr Ile His Leu Gly Ile
 65 70 75 80
 Met Ala Ser Ile Leu Leu Asn Ala Lys Ala Val Asp Phe Val Val Thr
 85 90 95
 Gly Cys Gly Thr Gly Gln Gly Ala Leu Met Ser Leu Asn Ile His Pro
 100 105 110
 Gly Val Ile Cys Gly Tyr Cys Ile Asp Pro Ala Asp Ala Phe Leu Phe
 115 120 125
 Ala Gln Ile Asn Asn Gly Asn Ala Leu Ser Leu Pro Phe Ala Lys Gly
 130 135 140
 Phe Gly Trp Gly Ala Glu Leu Asn Val Arg Phe Ile Phe Glu Lys Ala
 145 150 155 160
 Phe Thr Gly Arg Asn Gly Glu Gly Tyr Pro Pro Glu Arg Lys Glu Pro
 165 170 175
 Gln Val Arg Asn Ala Gly Ile Leu Asn Gln Val Lys Ala Ala Val Val
 180 185 190
 Lys Glu Asn Tyr Leu Asp Thr Leu Arg Ala Ile Asp Pro Glu Leu Val
 195 200 205
 Lys Thr Ala Val Ser Gly Gln Arg Phe Gln Gln Cys Phe Phe Glu Asn
 210 215 220
 Cys Gln Asp Lys Glu Ile Glu Ala Phe Val Arg Gly Ile Val Gly
 225 230 235 240

<210> 10747

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10747

Ile Val Ile Met Arg Gly Thr Gly Ala Asn Met Thr Leu Asp Ala Leu
 1 5 10 15
 Phe Gln Leu Met Lys Ile Ile Ser Pro Ser Glu Thr Pro Ser Asp Gly
 20 25 30
 Asn Leu Ala Asn Phe Met Thr Met Leu Ile Ser Thr Lys Asn His Ser
 35 40 45
 Asp Ala Leu Leu Pro Phe Ser Gln Arg Ala Tyr Met Leu Ser Val Ala
 50 55 60

Tyr Ser Asp Pro Gln Lys Ala Ala Ala Leu Leu Ser Ser Cys Gln Pro
 65 70 75 80
 Gly Ala Gly Asn Pro Leu Pro Leu Leu Asn Phe Ser Gly Trp Pro Asp
 85 90 95
 Val Arg Tyr Ala Thr Ser Gly Glu Leu Gln Thr Pro Glu Ser Glu Asp
 100 105 110
 Tyr Phe His Lys Ile Ser Ser Ala Ala Thr Leu Leu Arg Ala Ala Ile
 115 120 125
 Ile Asp Ala Glu Gln Gln Lys Asn Thr Pro Ala Phe Tyr Ile Leu Asp
 130 135 140
 Lys Val Leu Ser Leu Asn Ser Ala Leu Pro Glu Arg Tyr Lys Lys Met
 145 150 155 160
 Ala Asn Ile Ser Tyr Ser
 165

<210> 10748

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 10748

Glu Thr Ile Ala Val Met Glu Asn Val Lys Gln Ser Ala Pro Pro Pro
 1 5 10 15
 Asp Phe Val Val Glu Ala Met Gly Glu Tyr Val Glu Lys Tyr Ile Thr
 20 25 30
 Ala Ile His Phe Ile Pro Arg Asp Asp Arg Asp Pro Pro Gly Asp
 35 40 45
 His Trp Gly Thr Gly Trp Leu Val Glu Glu Cys Asn Arg Pro Leu Leu
 50 55 60
 Ala Thr Cys Glu His Val Ala Ser Lys Gln Leu Glu Gly Ile Leu Gly
 65 70 75 80
 Tyr Ser Cys His Gly Ser Glu Ser Gly Ile Ser Val Gly Gly Lys Phe
 85 90 95
 Thr Val Tyr Pro Phe Glu Leu Asp Phe Ala Arg Ala Asp Ile Ser Lys
 100 105 110
 Thr Phe Asn Met Val Asp His Lys Gly Glu Cys Thr Asn Lys Glu His
 115 120 125
 Tyr Ala Asp Ser His Ser Pro Val Ala Asp Glu Tyr Leu Tyr Val Tyr
 130 135 140
 Gly Phe Pro Gly Val Asp Ala Gln Ala Gly Phe Gly Gln His Glu Ile
 145 150 155 160
 Arg Gly Met Gly Val Phe Leu Arg Glu Val Glu Phe Asp Pro Ser Ala
 165 170 175
 Phe Thr Glu Ala Pro Val Pro Val Leu Gly Glu His Ile Ser Cys Ala
 180 185 190
 Trp Ser Thr Asn Leu Ala Ser Pro Leu Met Gly Thr Thr Gly Asn Leu
 195 200 205
 Ser Leu Pro Asp Gly Met Ser Gly Ser Pro Leu Trp Asn Thr Arg Tyr
 210 215 220
 Thr Glu Val Thr Asn Ala Gly Gly Ile Trp Thr Pro Cys Asp Ser Arg
 225 230 235 240
 Ile Thr Gly Ile Val Trp Gly His Ser Ala Lys Met Thr Arg Leu Phe
 245 250 255
 Ala Thr Pro Val Glu Ser Phe Lys Asp Leu Leu Phe Lys
 260 265 270

<210> 10749

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10749

Ser Ile His Val Val Tyr Pro Arg Gln Lys His Arg Gly Arg Leu Tyr
 1 5 10 15
 Leu Gln Ser Pro Cys Asp Ser Lys Ser Lys Gly Gly His His Arg Leu
 20 25 30
 Thr Phe Ile Lys Leu Thr Phe Gly Lys Arg Ile Cys Ala Thr Ala Leu
 35 40 45
 Gln Trp Asp Pro Gly Lys Arg Cys Ile Asp Phe Ala
 50 55 60

<210> 10750

<211> 672

<212> PRT

<213> Enterobacter cloacae

<400> 10750

Gly Thr Lys Met Arg Gly Ser Lys Glu Lys Ser Met Pro Asp Val Leu
 1 5 10 15
 Asp Ser Ala Gln Leu Val Arg Ile Glu Ala Val His Arg Gly Phe Leu
 20 25 30
 Tyr Gln His Leu Tyr Ala Val Gly Cys Leu Leu Leu Ala Gln Lys Ala
 35 40 45
 Ser Val Glu Thr Val Thr Val Glu Leu Asp Glu Asp Ile Glu Leu Asn
 50 55 60
 Ser Arg Gln Glu Arg Ile Tyr Val Gln Val Lys Thr Arg Leu Lys Pro
 65 70 75 80
 Ile Ile Leu Ser Asp Val Ser Gly Ala Leu Ala Arg Phe Ala Glu Leu
 85 90 95
 Arg Asn Glu His Thr Asp Gly Arg Arg Gln Gly Ser Ala Ser Phe Val
 100 105 110
 Ile Val Ala Asn Gln Ala Pro Gly Pro His Leu Gln Lys Met Ile Glu
 115 120 125
 Asp Lys Thr Leu Pro Ala Asp Val Arg Phe Ile Trp Pro Gln Ser Thr
 130 135 140
 Ala Glu Arg Tyr Pro Val Leu Pro Pro Ala Trp Asp Thr Val Ala Asp
 145 150 155 160
 Ala Ala Ala Trp Cys Ile Ala Gln Ala Glu Gln Leu Asn Phe Ser Leu
 165 170 175
 Leu Ser Pro Glu Ser Leu Ile Trp Lys Leu Ala Gly Leu Val Gln Leu
 180 185 190
 Ala Ala Thr Gly Gly Asp Ala Asp Gly Gln His Ala Phe Tyr Thr Arg
 195 200 205
 Asp Leu Pro Ala Leu Phe Glu Gln Leu Ile Val Gln Leu Gln Asp Phe
 210 215 220
 Pro Ala Pro Pro Thr Leu Tyr Arg Pro Gln Arg Glu Glu Pro Ser Phe
 225 230 235 240
 Val Ser Asp Glu Arg Ile Arg Ile Ile Cys Gly Leu Ser Gly Ala Gly
 245 250 255
 Lys Thr Ala Trp Ala Ala Gln Ala Ala Gln His Ser Thr Gln Val Cys
 260 265 270
 Ala Tyr Tyr Asp Ala Gly Asp Leu Pro Gly Pro Ala Leu Ala Ser Thr
 275 280 285
 Leu Val Arg Glu Leu Ala Ala Arg Phe Ala Thr Gln Glu Gln Gly Gly
 290 295 300
 Leu Arg Arg Ile Leu Leu Pro Gly Ala Ser Gly Val Glu Ala Leu Arg
 305 310 315 320
 Thr Phe Asp Thr Phe Leu Gln Gln Arg Asn Asp Asn Leu Leu Leu Val
 325 330 335
 Leu Asp Asn Ala His Arg Ile Pro Val Glu Asn Leu Arg Asp Val Leu
 340 345 350
 His Ala Thr Thr Arg Ile His Phe Val Leu Leu Cys Gln Pro His Asp

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<210> 10751
<211> 108
<212> PRT
<213> Enterobacter cloacae
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<400> 10751
Val Gln Glu Thr Met Met Arg Ile Leu Cys Leu Asp Ile Pro Ala Pro
1          5          10          15
Gly Ala Ser Leu Glu Lys Tyr Ala Pro His Leu Asn Ala Glu Ala Leu
20          25          30
His Ala Trp Gly Leu Tyr Lys Ser Gly Phe Ile Arg Asp Ile Tyr Phe
35          40          45
Arg Gln Asp Arg Pro Gly Val Ala Ile Phe Leu Glu Cys Asp Ser Val
50          55          60
Asp Glu Ala Met Asn Val Met Ala Glu Phe Pro Leu Ala Lys Ala Gly
65          70          75          80
Leu Leu Ser Phe Glu Cys Ile Pro Leu Gly Ser Phe Ile Asn Trp Glu
85          90          95
Asn Leu Phe Ala Ala Glu Phe Lys Asn Lys Glu
100          105

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<210> 10752
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10752
 Asn Leu His Ser Trp Glu Trp His Asp Phe Asp Gln Glu Ser Thr Glu
 1 5 10 15
 Val Glu Ala Asp Glu Phe Asp Gln Tyr Asn Phe Asp Val Glu Lys Asn
 20 25 30
 Asp Val Val Thr Arg Glu Phe Trp Ala Gly Ser Val Ala Thr Gly His
 35 40 45
 Arg Tyr Ala Ile Gly Phe Val Lys Ser Glu Asn His Ser Met Leu Asn
 50 55 60
 Ser Phe Leu Gly Asn Ala Gln His Asn Gly Lys Ser Leu Thr Ile Pro
 65 70 75 80
 Glu Ser Gly Ala Trp Val Val Ser Phe Asp Leu Ala Asp Gly Glu Asn
 85 90 95
 Ser Tyr Glu His Val Glu Leu Asp Pro Arg Ala Leu Arg Asn Leu Val
 100 105 110
 Asp Gly Val Ala Arg Ala Leu Tyr Asp His Tyr Asn Val Ser Lys Ala
 115 120 125
 Gly Leu Tyr Phe Trp Ile Ala Ala Arg Glu Glu Leu Val Ser Ile Tyr
 130 135 140
 Asp Lys Ala Leu Gly Leu Val Pro Glu Lys Thr Leu Lys Leu Lys Pro
 145 150 155 160
 Leu Pro Leu Thr Glu Asn Leu Asn Gln Leu Gly Glu Asn Gly Arg Gly
 165 170 175
 Tyr Ala Ile Ile Thr Lys Tyr Tyr
 180 185

<210> 10753
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 10753
 Ala Arg Thr Gly Gly Val Met Pro Ser Ser Arg Asn Thr Thr Glu Asn
 1 5 10 15
 Pro Thr Ala Asp Gln Leu Tyr Glu Glu Val Thr Arg Lys Leu Lys Thr
 20 25 30
 Ala Ser Ser Asn Ile Ala Lys Arg Lys Leu Glu Ser Gly Glu Tyr Val
 35 40 45
 Met His Asn Gly Arg Ile Ile Pro Ala Ser Val Leu Glu Glu Ala Asn
 50 55 60
 Ala Glu Asn Ala Ile Ser Lys Arg Arg Ser His Gly Ala Ile Pro Leu
 65 70 75 80
 Pro Ser Phe Thr Arg Lys Ser Glu Glu Ala Arg Pro Leu Val Pro Val
 85 90 95
 Trp Ile Gly Gly Asp Glu Gln Asp Asn Gly Glu Trp Lys Gly Ser Arg
 100 105 110
 Lys Ser Ile Ala Ala Ala Ser Val Gln Thr Ser Leu Arg Pro Pro Met
 115 120 125
 Arg Val Arg Ala Ala Ala His Phe Arg Gly Lys Thr Gln Thr Val Asp
 130 135 140
 Val His Leu Asp His Ser Gly Ile Ala Pro Lys His Gly Gln Ile Phe
 145 150 155 160
 Ala Tyr Asp Ala Lys Ser Gly Gln Phe Ile Pro Val Ile Ser Gly Ser
 165 170 175
 Gly Thr Met Ala Gln Asp Asn Arg Arg Ala Lys Asp Arg Lys His Ala
 180 185 190

Gly Leu Leu Ala Ala Arg Lys Ser Lys
195 200

<210> 10754

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10754

Arg Gln Gly Arg Ser Val Met Leu Asn Arg Asn Leu Glu Val Leu Thr
1 5 10 15
Ser Tyr Phe Asn Asp Leu Leu Glu Ser Ala Pro Gln His Arg Asp Asn
20 25 30
Val Val Ala Ile Leu Ala Gln Ile Glu Ile Met Lys Ser Arg Pro Val
35 40 45
Phe Ser Leu Glu Pro Ser Ile Leu Leu Ala Arg Lys Glu Ile Asp Lys
50 55 60
Cys Thr Ile Cys Lys Lys Gln Val Leu Cys Asp Glu Trp Pro Glu Thr
65 70 75 80
Leu Phe Cys Gly Leu Pro Val Ser Asp
85 90

<210> 10755

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10755

Ala Arg Ala Cys Ser Leu Ser Thr Gly Gly Val Tyr Gly His Asn His
1 5 10 15
Asp Leu His Leu Asn Leu Arg Lys Lys Leu Leu Thr Ile Thr Asp Thr
20 25 30
Gln Asn Arg Thr Asn Asp Leu Phe Asn Gln Val Arg Gln Glu Leu Ser
35 40 45
Leu Tyr Gly Ile Glu Phe Glu Asp Ile Thr Val Thr Gln His Leu Asn
50 55 60
Val Arg Ala Gly Gln
65 70

<210> 10756

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10756

Ser Arg Asp Leu Phe Ser His Trp Ser Pro Gln Ser Cys Trp Pro Val
1 5 10 15
Lys Lys Ser Ile Ser Ala Gln Tyr Val Arg Ser Arg Cys Ser Val Met
20 25 30
Ser Gly Gln Lys Arg Tyr Phe Val Val Ser Arg Tyr Pro Thr Asp Ser
35 40 45
Glu Pro Lys Gly Ile Gly Phe Ser Pro Val Gly Asp Gly Lys Val Pro
50 55 60
Glu Glu Tyr Leu Thr Phe Arg Leu Asp Val Glu His Val Ile Gln Thr
65 70 75 80
Ile Asn Ala Leu Phe Glu Asn Asp Lys Val Lys Arg Leu Glu Ala Tyr
85 90 95
Glu Gln Val Phe Gln Ser Ala Gln Val Arg Phe Ser Gly Arg Glu Thr
100 105 110
Asp Phe Val Pro Ala Ser Gln Ala Leu Asn Glu Leu Lys Lys Thr Ile
115 120 125

Leu Ser Ser Ser Trp Val Phe Val Arg Asn Arg Ile Met Gly Val Tyr
 130 135 140
 Gly Leu Tyr Ala Leu Leu Ile Ile Ile Leu Gly Met Thr Gln Tyr
 145 150 155 160
 Phe Phe Thr Ala Glu Leu Lys Asn Val Pro Ala Val Leu Ile Gly Thr
 165 170 175
 Cys Thr Gly Ser Trp Leu Phe Val Ser Ile Lys Thr Lys Asn Ile Val
 180 185 190
 Phe Asp Glu Ile Tyr Glu Asn Met Ser Gln His Arg Ser Leu Leu Met
 195 200 205
 Arg Leu Ile Tyr Cys Cys Thr Leu Ser Ser Ala Val Thr Ala Cys Leu
 210 215 220
 Leu Ala Gly Phe Phe Glu Ile Lys Ile Gly Glu Val Ser Thr Ala Leu
 225 230 235 240
 Ile Pro Asp Asn Ala Ile Ile Ala Leu Ala Ala Gly Ile Phe Phe Gly
 245 250 255
 Leu Gly Glu Ser Ser Leu Ala Thr Arg Leu Ser Gly Lys Val Lys Asn
 260 265 270
 Ser Ile
 275

<210> 10757

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10757

Arg His Ser Pro Lys Thr Ile Pro Leu Asn Thr Phe Gln Lys Trp Phe
 1 5 10 15
 Asp Leu Leu Tyr Asn Ile Ile Tyr Met Leu Arg Lys Gln Asn Glu Phe
 20 25 30
 Ile Cys Ser Glu Cys Ile Asn Glu Lys Ile Gly Ser Arg Val Gly Trp
 35 40 45
 Val Ile Gly Gly Leu Asn Ile Tyr Gly Ile Val Gln Arg Ala Ala Asp
 50 55 60
 Ser Ala Asp Asn Leu Lys Asn Phe Cys Pro Ile Phe Tyr Asn Ala Leu
 65 70 75 80
 Tyr Arg Glu Gly Leu Glu Met Met Tyr Phe Leu Ile Glu Pro Met Ile
 85 90 95
 Met Lys Ser Cys Tyr Leu Asn Ile Ser Thr Ala Ser Asp Glu Glu Ile
 100 105 110
 Val Arg Ala Leu Lys Arg Met Met
 115 120

<210> 10758

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10758

Phe Thr Pro Gln Ile Lys Thr Met Asn Ser Phe Met Asp Thr Phe Lys
 1 5 10 15
 Ser Glu Ile Asn Ile Thr Leu Leu Gly Lys Asp Met Phe Asp Asp Arg
 20 25 30
 Met Asn Ile Ala Arg Glu His Val Met Tyr Tyr Ser Glu Glu Ile Ile
 35 40 45
 Lys Gln Pro Gly Thr Asp Lys Glu Leu Ala Val Arg Leu Asp Lys Ala
 50 55 60
 Leu Ile Gly Val Lys Glu Gly Val Gln Tyr Tyr Val Asn Gly Leu Gly
 65 70 75 80
 Asp Ala Thr Thr Arg Leu Leu Tyr Tyr Thr Ser Cys Leu Thr Glu Asn

				85					90					95			
Tyr	Gln	Asp	Val	Cys	Lys	Lys	Leu	Gly	Ser	Glu	Asp	Val	Arg	Phe	Ile		
			100					105					110				
Cys	Ala	Leu	Tyr	Glu	Leu	Val	Lys	His	Arg	Asn	Val	Ile	Phe	Arg	Met		
		115					120					125					
Leu	Asn	Ile	Tyr	Ile	Glu	Thr	Leu	Leu	Lys	Asn	Lys	Ser	Asp	Val	Glu		
	130					135					140						
Lys	Lys	Thr	Ile	Leu	Glu	Asn	Leu	Thr	Pro	Phe	Ala	Lys	Asn	Tyr	Pro		
145					150					155					160		
Ile	Lys	Tyr	Ile	Ser	Lys	Met	Val										
				165													

<210> 10759

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10759

Pro	Ile	Ser	Pro	Gly	Glu	Cys	Asp	Leu	Ile	Cys	Lys	Trp	Gln	Ile	Ile		
1				5					10					15			
Ile	Ala	Asp	Ile	His	Leu	Asn	Ala	Phe	Ser	Pro	Ala	Ser	Ser	Leu	Leu		
			20					25					30				
Ile	Pro	Gln	Asn	Tyr	Lys	Lys	Phe	Phe	Phe	Gly	His	Leu	Lys	Ala	Asp		
		35					40					45					
Asn	Gly	Cys	Leu	Leu	Ser	Phe	Gly	His	Pro	Tyr	Cys						
	50					55					60						

<210> 10760

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10760

Val	Glu	His	Arg	Thr	Asp	Gly	Lys	Gly	Phe	Gln	Gly	Met	Gly	Val	Val		
1				5					10					15			
Thr	Phe	Tyr	Leu	Ala	Asn	Leu	Val	Gly	Gln	Phe	Gly	Glu	Ala	Asn	Ser		
			20					25					30				
Ala	Arg	Glu	Arg	Gly	Glu	Leu	His	Gln	Val	Lys	Val	Leu	Ala	Asn	Asp		
		35					40					45					
Gly	Leu	Pro	Gly	Val	Ser	Glu	Ser	Leu	Trp	Gln	Lys	Asn	Val	Ala	Lys		
	50					55					60						
Gln	Thr	Pro															
65																	

<210> 10761

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10761

Val	Thr	Ser	Asn	Glu	Arg	Ala	Glu	Glu	Ser	Val	Pro	Glu	Cys	Gln	Pro		
1				5					10					15			
Asn	Glu	Gly	Glu	Glu	Lys	Leu	Tyr	Val	Val	Phe	Cys	Ile	Pro	Ser	Ala		
			20					25					30				
Glu	Thr	Ile	His	Gln	Gly	Phe	Gly	Ala	His	Tyr	Thr	Leu	Ile	Tyr	Ser		
		35					40					45					
Lys	Lys	Glu	Asn	Gly	Asn	Ser	Val	Ser	Lys	Thr	Ile	Cys	Ala	Asp	Ser		
	50					55					60						
His	Lys	Phe	Val	Ile	Lys	Ala	Leu	Arg	Pro	Asn	Val	Ile	Leu				
65					70					75							

<210> 10762
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10762
 Ala Arg Arg Val Met Thr Met Lys Lys Trp Ile Ser Thr Leu Arg Arg
 1 5 10 15
 Phe Phe Ala Pro Arg Pro Val Asn Ala Glu Asn Ser Ala Gln Arg Val
 20 25 30
 Leu Glu Ser Ile Leu Pro Val Ala Ser Leu Tyr Gly Val Asp Val Ala
 35 40 45
 Asn Ile Asp Pro Glu Trp Phe His Asp Lys Thr Ser Arg
 50 55 60

<210> 10763
 <211> 440
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (440)

<400> 10763
 Trp Pro Phe Cys Tyr His Tyr Leu Leu Ser Gln Met Glu Met Ile Met
 1 5 10 15
 Lys Arg Thr Val Leu Thr Pro Ala Leu Ser Ala Thr Ala Leu Leu Leu
 20 25 30
 Thr Met Gln Ala Ala His Ala Gly Pro Gln Ala His Val Val Cys Ser
 35 40 45
 Tyr Ser His Thr Leu Gly Asp Asp Ala Ile Met Met Phe Ser Met Pro
 50 55 60
 Asn Glu Ala Met Leu His Asp Phe Phe Gly Asn Val His Thr Asp Ala
 65 70 75 80
 Tyr Ser Ser Arg Glu Ser Leu Arg Thr Gln Glu Lys Thr Thr Cys Asp
 85 90 95
 Asn Lys Ala Asp Ser Ser Ala Tyr Trp Ala Pro Ser Leu Lys Leu Pro
 100 105 110
 Asp Gly Thr Val Val Lys Pro Ala Tyr Gln Lys Thr Tyr Tyr Gln Ala
 115 120 125
 Ser Asn Val Asp Ala Trp Pro Leu His Pro Phe Gln Ala Gly Leu Ser
 130 135 140
 Leu Leu Ala Gly Asp His His Gly Thr Ala Pro Asn Pro His Ile Thr
 145 150 155 160
 Phe Leu Cys Ala Asn Gly Lys Gly Tyr Thr Thr Arg Thr Gly Glu Val
 165 170 175
 Cys Gly Leu Arg Lys Ala Lys Asp Ala Val Gln Phe Asn Ile Gly Ile
 180 185 190
 Gln Phe Pro Asn Cys Trp Asp Gly Val Asn Leu Lys Pro Ala His Gly
 195 200 205
 Leu Ala Asn Ala Thr Tyr Asp Thr Lys Gly Gln Cys Pro Ser Ala Phe
 210 215 220
 Pro Val Lys Ile Pro Thr Val Asn Met Asn Ile Ala Tyr Val Leu Pro
 225 230 235 240
 Thr Ile Ser Ser Leu Asp Thr Ser Lys Val Gln Leu Ser Leu Asp Pro
 245 250 255
 Ile Met His Gly Ser Glu Arg Glu Glu Arg Trp Gly Ser Leu Tyr Thr
 260 265 270
 Ala His Ala Asp Phe Met Asn Gly Trp Thr Glu Asp Ala Ala Arg Phe
 275 280 285

Met	Thr	Asp	Leu	Cys	Met	Asn	Arg	Gly	Met	Asp	Cys	Gly	Thr	Thr	Val
	290					295					300				
Pro	Tyr	Gly	Tyr	Ser	Lys	Ala	Lys	Ala	Asn	Val	Trp	Leu	Ser	Ser	Met
305					310					315					320
Glu	Pro	Ala	Leu	Ser	Gln	Pro	Asp	Pro	Gln	Val	Leu	Leu	Val	Gln	Asp
				325					330					335	
Asn	Trp	Lys	Asn	Gly	Gly	Arg	Thr	Lys	Asn	Ser	Glu	Thr	Leu	Ser	Leu
			340					345					350		
Val	Lys	Phe	His	Ile	Pro	Pro	Leu	Pro	Ala	Gly	Gln	Asp	Pro	Ala	Gln
		355					360					365			
Phe	Lys	Tyr	Arg	Val	Arg	Ile	Phe	Gly	Gly	Lys	Val	Glu	Thr	Asn	Gly
	370					375					380				
Ala	Asp	Gln	Ile	Phe	Phe	Tyr	Pro	Ala	Ser	Asn	Asp	Trp	Asp	Pro	Ala
385					390					395					400
Thr	Val	Ser	Trp	His	Ser	Arg	Pro	Ser	Cys	Asn	Tyr	Arg	Ser	Asp	Ala
				405					410					415	
Val	Leu	Tyr	Leu	Asn	His	Ser	Arg	Glu	Tyr	Arg	Ser	Ser	Pro	Gln	Gly
			420					425					430		
Pro	Lys	Asp	Pro	Arg	Ile	Gly	Xaa								
		435					440								

<210> 10764

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 10764

Thr	Asp	Ser	Glu	Ser	Ala	Asp	Thr	Ala	Ser	Leu	Leu	Ser	Ile	Gly	Leu
1				5					10					15	
Thr	His	Thr	Tyr	Leu	Thr	Asn	Ser	Gln	Leu	Ile	Gly	Pro	Pro	Ser	Lys
			20					25					30		
Ala	Gly	Phe	Phe	Tyr	Phe	Arg	Leu	Lys	Glu	Thr	Ser	Ser	Thr	Arg	Leu
		35					40					45			
Leu	Val	Lys	Ser	Ser	Arg	Gly	Pro	Asp	Leu	Ile	Asn	Gln	His	Gln	Ala
		50				55					60				
Gly	Ala	Asn	Met	Lys	Lys	Thr	Thr	Met	Gln	Asp	Arg	Pro	Asp	Thr	Trp
65				70					75						80
Ala	Val	Met	Leu	Ala	Trp	Leu	Val	Asn	His	Lys	Asn	Glu	Ala	Gly	Tyr
				85				90						95	
Ser	Val	Leu	Ala	Phe	Val	Met	Ser	Ile	Leu	Ala	Thr	Ser	Arg	Gly	Ala
			100					105					110		
Lys	Ser	Lys	Trp	Lys	Asp	Arg	Ile	Ala	Gly	Ala	Thr	Met	Cys	Gly	Ile
		115					120					125			
Leu	Cys	Phe	Phe	Ala	Gln	Pro	Thr	Leu	Thr	Ala	Ile	Trp	Ala	Ile	Phe
		130				135					140				
Asn	Trp	Asn	Phe	Pro	Pro	Glu	Leu	Cys	Trp	Pro	Ile	Ser	Ala	Gly	Val
145				150					155						160
Gly	Tyr	Val	Gly	Val	Asp	Ser	Leu	Phe	Ala	Tyr	Ala	Arg	Arg	Arg	Leu
				165				170						175	
Gly	Leu	Asn	Glu	Pro	Gly	Asp	Lys	Ala	Asn	Ala	Asp	Pro	Gln		
			180					185					190		

<210> 10765

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10765

Trp	Arg	Val	Phe	Phe	Phe	Gln	Glu	Thr	Ala	Met	Ser	Ala	Leu	Tyr	Glu
1				5					10					15	
Lys	Ser	Gln	Leu	Thr	Lys	Ile	Leu	Ile	Ser	Ser	Leu	Pro	Ala	Thr	Lys

			20					25				30			
Glu	Thr	Met	Asp	Ser	Ala	Thr	Phe	Leu	Asp	Leu	Ser	Cys	Thr	Ile	Lys
		35					40					45			
Glu	Ile	Gln	Phe	Thr	Gly	Gly	Gln	Lys	Gln	Asp	Ile	Asp	Val	Thr	Thr
	50					55					60				
Leu	Cys	Ser	Thr	Glu	Gln	Glu	Asn	Ile	Asn	Gly	Leu	Pro	Ser	Pro	Ser
65					70					75					80
Glu	Ile	Ser	Leu	Ser	Gly	Asn	Phe	Tyr	Lys	Asn	Pro	Ala	Gln	Asp	Ala
				85					90					95	
Leu	Arg	Glu	Ala	Tyr	Asp	Asn	Asp	Thr	Thr	Tyr	Ala	Phe	Gln	Val	Ile
			100					105					110		
Phe	Pro	Ser	Gly	Lys	Gly	Phe	Lys	Phe	Leu	Ala	Glu	Ile	Arg	Gln	His
		115					120					125			
Thr	Trp	Ser	Ser	Gly	Thr	Asn	Gly	Val	Val	Ala	Ala	Thr	Phe	Ser	Leu
	130					135					140				
Arg	Leu	Lys	Gly	Lys	Pro	Glu	Asn	Ile	Glu	Ser	Gly	Ser			
145					150					155					

<210> 10766

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10766

Gly	Leu	Lys	Met	Thr	Ile	Trp	Leu	Gly	Ala	Leu	Lys	Asn	Leu	Leu	Ala
1				5					10					15	
Pro	Leu	Thr	Gly	Lys	Thr	Leu	Ser	Cys	Leu	Lys	Ser	Gln	Asn	Asn	Gly
			20					25					30		
Leu	Ser	Arg	Pro	Ser	Arg	Thr	Glu	Cys	Ser	Arg	Ala	Arg	Leu	Ser	Ala
		35				40					45				
Thr	Trp	Arg	Gln	Ile	Ser	Ala	Leu	Leu	Leu	Phe	Leu	Met	Pro	Leu	
	50					55				60					
Leu	Ser	Gly	Cys	Ala	Gln	Gln	Gln	Lys	Pro	Pro	Val	Glu	Tyr	Arg	Val
65				70					75						80
Ile	Lys	His	Pro	Ala	Leu	Asn	Leu	Pro	Ala	Glu	Leu	Thr	Ser	Arg	Leu
				85					90					95	
Asp	Val	Pro	Asp	Leu	Pro	Asp	Asn	Pro	Ser	Tyr	Gly	Asp	Ser	Val	Ser
			100					105					110		
Met	Asn	Ala	Thr	Leu	Tyr	Gly	Ile	Val	Gly	Gln	Cys	Asn	Ile	Asp	Arg
		115					120					125			
Glu	Ala	Ile	Arg	Lys	Ile	Glu	Lys	Gly	Arg	Asn	Asp	Glu	Asn	Gln	Pro
	130					135					140				
Val	Gln														
145															

<210> 10767

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 10767

Ser	Gln	Asp	Ser	Thr	Arg	Thr	Pro	Glu	Gln	Lys	Leu	Ser	Asn	Glu	Val
1				5					10					15	
Lys	Met	Thr	Glu	Ser	Lys	Tyr	Gly	Ser	Gly	Leu	Pro	His	Ala	His	Ala
			20					25					30		
Ala	Cys	Ile	Val	Asp	Gly	Cys	Glu	Leu	Ser	Val	Arg	Ser	Arg	Asn	Ser
		35					40				45				
His	Tyr	Cys	Glu	Lys	His	Tyr	Met	Arg	Val	Arg	Arg	His	Gly	Thr	Thr
	50					55				60					
Glu	Lys	Leu	Ser	Thr	Arg	Lys	Asp	Gly	Lys	Leu	Glu	His	Thr	Gly	Gly
65					70					75					80

Tyr Leu Leu Val Tyr Ala Pro Asp His Pro Leu Ala Cys Gly Ser Pro
 85 90 95
 Arg Val Tyr Glu His Arg Lys Val Tyr Asp Lys His Gly Ala Gly
 100 105 110
 Pro Phe Arg Cys His Trp Cys Ala Lys Thr Val Gly Trp Asp Thr Leu
 115 120 125
 His Ile Asp His Leu Asp Asp Cys Lys Thr Asn Asn Glu Pro Asp Asn
 130 135 140
 Leu Val Pro Ser Cys Pro Val Cys Asn Gln Lys Arg Gly Val Asp Lys
 145 150 155 160
 Met Arg Lys Thr Met Arg Glu Asn Ser Asp Arg Arg Tyr Thr Ala His
 165 170 175
 Gly Lys Thr Met Cys Leu Asn Glu Trp Ala Asp Tyr Leu Gly Ile Ser
 180 185 190
 Arg Asn Ser Ile Glu Tyr Arg Leu Lys Ala Gly Trp Asp Ile Ser Met
 195 200 205
 Val Phe Ser Pro Arg Ile Gly Asn Ser Gly Pro Pro Ser Arg Lys Leu
 210 215 220
 Ala Lys Ile Val His Glu Ser Val Lys
 225 230

<210> 10768

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10768

Ala Gly Asp Arg Lys Met Ile Glu Thr Ser Leu Asp Phe Ser Gly Leu
 1 5 10 15
 Asn Asp Ile Ala Lys Asp Leu Glu Ala Leu Ser Arg Ala Glu Asn Asn
 20 25 30
 Lys Val Leu Arg Asp Ala Thr Arg Ala Gly Ala Glu Val Leu Lys Asp
 35 40 45
 Glu Val Ile Ala Arg Ala Pro Val Arg Thr Gly Lys Leu Lys Lys Asn
 50 55 60
 Val Val Val Val Thr Gln Lys Ser Arg Arg Arg Gly Glu Ile Ser Ser
 65 70 75 80
 Gly Val His Ile Arg Gly Val Asn Leu Arg Thr Gly Asn Ser Asp Asn
 85 90 95
 Thr Met Lys Ala Asn Asn Pro Arg Asn Ala Phe Tyr Trp Arg Phe Val
 100 105 110
 Glu Leu Gly Thr Ala Asn Met Pro Ala His Pro Phe Val Arg Pro Ala
 115 120 125
 Tyr Asp Thr Arg Glu Glu Glu Ala Ala Ser Val Ala Ile Ala Arg Met
 130 135 140
 Asn Gln Ala Ile Asp Glu Val Leu Ser Lys
 145 150 155

<210> 10769

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10769

Lys His Arg Val Trp Leu Leu Arg Gly Arg Met Lys Asn Ile Lys Asn
 1 5 10 15
 Leu Ala Leu Ala Lys Met Ser Gly Phe Arg His Lys Thr Val Ala Val
 20 25 30
 Pro Glu Trp Glu Gly Val Lys Val Val Leu Arg Glu Pro Ser Gly Glu
 35 40 45
 Ala Trp Leu Arg Trp Gln Glu Val Val Lys Ala Gly Ala Asp Asp Glu

50		55		60
Asn Val Ser Val Ser	Glu Lys Ala His Arg	Asn Leu Cys Ala Asp Val		
65	70	75		80
Cys Ser Ser Leu Thr	Phe Asp His Gly Gly Trp	Ile Asp Pro Arg Ser		
	85	90	95	

<210> 10770

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10770

Val Glu Lys Gly	Asn Cys Arg Glu Val	Phe Gln Arg Gly	Ile Ala Leu
1	5	10	15
Phe His Gln Cys	Pro Glu Asn Pro	Phe Thr Phe Gln	Leu Asn Glu Phe
	20	25	30
Ile Tyr Asp Cys	Val Leu Leu Ile	Arg Asn Asn Asn	Asp Lys Gly His
	35	40	45
Leu Arg Val Ala	Leu Phe Asn Gly	Val Asn Gln Arg	Glu Gly Ser Gly
	50	55	60
Thr Asn Gly Ala	Thr Glu Ile Ile	Ser Val Val Thr	
65	70	75	

<210> 10771

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10771

Thr Phe Asn Gly	Gly Ile Phe Arg	Ala Val Thr Asp	Asp Asn Arg Met
1	5	10	15
Ala Lys Val Glu	Lys Val Met Gly	Glu Ala Asp Ala	Thr Ala Cys Ala
	20	25	30
Ser Asp Gln Tyr	Trp Ala Leu Leu	Arg Val Ser His	Arg Asn Leu Leu
	35	40	45
Phe Ser Ser Thr	Met Gly Gln Ala	Thr Leu Ser His	
	50	55	60

<210> 10772

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10772

Leu Leu Gln Val	Asn Leu Met Leu	Met Ser Cys Ser	Ile Met Ala Leu
1	5	10	15
Tyr His Val Phe	Thr Ala Ser Leu	Ala Arg Phe Ile	Gly Pro Glu Gly
	20	25	30
Glu Phe Lys Val	Asn Ile Ser Val	Ser Asn Pro Asp	Arg Leu Phe Phe
	35	40	45
Thr Asp Lys Val	Ile Phe Thr Thr	Arg Ser Thr Val	Asn Glu Arg
	50	55	60

<210> 10773

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10773

Gly Ile His Ile	His Ser Ile Gln	Lys Val Leu Ile	Lys Gly Asn Asp
1	5	10	15

Thr	Arg	Arg	Glu	Lys	Ile	Gln	Thr	Glu	Ala	Gly	Glu	Arg	Arg	Val	Thr
			20					25					30		
Gly	Asn	Pro	Val	Thr	Gln	Asn	Asp	Tyr	Ser	Arg	Ser	Pro	Ile	Ile	Phe
		35					40					45			
Ser	Ser	Phe	Ser	Trp	Ser	Ile	Ala	Asn	Leu	Arg	Ile	Pro	Ser	Ala	Ser
	50					55					60				
Leu	Ser	Thr	Ala	Ile	Gly	Ser	Trp	Leu	Cys	Cys	His	Arg	Asn	Ser	Asp
65					70				75						80
Ser	Val	Met	Arg	Ser	Gly	Arg	Ala	Phe	Thr	Ser	Pro	Val			
				85					90						

<210> 10774

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10774

Pro	Val	Leu	Tyr	Leu	Tyr	Val	Met	Gln	Ser	Pro	Phe	Thr	Asp	Arg	Arg
1				5					10					15	
Asp	His	Glu	Ser	Gly	Gly	Leu	Met	Asn	Glu	Phe	Lys	Arg	Cys	Met	Asn
			20					25					30		
Val	Phe	Thr	His	Ser	Pro	Phe	Lys	Val	Arg	Leu	Met	Leu	Leu	Asn	Met
		35					40					45			
Leu	Cys	Asp	Met	Phe	Asn	Ala	Lys	Pro	Gln	Gln	Asp	Asp	Asn	Ser	Ser
	50					55					60				
His															
65															

<210> 10775

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10775

Asn	Leu	Gln	Asp	Ala	Leu	Met	Lys	Arg	Ile	Phe	Leu	Ser	Val	Ala	Met
1				5					10					15	
Leu	Leu	Val	Gly	Cys	Ser	Ser	Ala	Ala	Ser	Gln	Glu	Gln	Ser	Ala	Lys
		20						25					30		
Asp	Thr	Thr	Val	Ser	Phe	Tyr	Lys	Ser	Tyr	Leu	Cys	Ala	Phe	Gly	Ser
		35					40				45				
Asn	Glu	Ala	Arg	Pro	Tyr	Pro	Ala	Asp	Glu	Leu	Arg	Lys	Tyr	Val	Ser
	50					55					60				
Ala	Asp	Thr	Ile	Ala	Arg	Ile	Gly	Ala	Ile	Gln	Glu	Ile	Pro	Glu	Gln
65					70				75						80
Glu	Leu	Ile	Glu	Ser	Asp	Tyr	Phe	Thr	Tyr	Thr	Gln	Asp	Tyr	Ala	Arg
				85				90					95		
Glu	Trp	Ile	Pro	Ala	Leu	Arg	Val	Glu	Asn	Ala	Arg	Pro	Phe	Leu	Asn
			100					105					110		
Gly	Glu	Val	Val	Gln	Val	Met	Glu	Gly	Ala	Gly	Gly	Gly	Arg	Ser	Ile
		115					120					125			
His	Leu	Glu	Val	Phe	Leu	Arg	Arg	Glu	Asp	Asp	Ala	Trp	Lys	Ile	Tyr
	130					135					140				
Arg	Val	Arg	Asp	Leu	Thr	Asn	Asn	His	Glu	His	Pro	Ile	Phe	Asn	Ala
145					150				155						160
Gly	Ala	Ile	Ala	Gln	Ala	Lys	Ile	Ala	Ala	Glu	Ser	Gly	Leu		
				165				170						175	

<210> 10776

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10776

Ala Leu Phe Asn Gln His Gln Val Asn Asp Trp His Asn Asn Ser Val
 1 5 10 15
 Leu Thr Tyr Leu Arg Glu Leu Arg Met Ser Trp Asn Lys Asp Val Ala
 20 25 30
 Val Ser Tyr Leu Arg Ser His Ala Leu Gly His Ser His Ser Glu Cys
 35 40 45
 Ala Lys Phe Thr Arg Leu Ala Ile Leu Ala Gly Gly Val Lys Val Pro
 50 55 60
 Asn Thr Asp Tyr Ala Lys Asp Tyr Gly Ala Glu Leu Leu Arg Ala Gly
 65 70 75 80
 Phe Arg Glu Leu Pro Gly Ser Thr Leu Ile Ala Gly Asp Val Ala
 85 90 95
 Val Ile Gln Pro Tyr Pro Gly Gly Asn Gly Ile Gly His Met Thr Met
 100 105 110
 Tyr Asp Gly Thr Gln Trp Ile Ser Asp Phe Val Gln Lys Ser Met Tyr
 115 120 125
 Pro Gly Pro Gly Tyr Arg Lys Met Gln Pro Ser Phe Lys Ile Tyr Arg
 130 135 140
 Met His
 145

<210> 10777

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10777

Lys Arg Gly Arg Ala Thr Gly Trp Tyr Tyr Ala Thr His Pro Ala Leu
 1 5 10 15
 Lys Thr Gly Trp Met Arg Phe Ala Pro Val Cys Ser Val Glu Ala Asp
 20 25 30
 Val Val Phe His His Pro Phe Glu Glu Ala His Thr Gly Thr His Glu
 35 40 45
 Ala Val Phe Lys Pro Lys Thr Cys Met Phe Ile His Thr Asn Thr
 50 55 60

<210> 10778

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10778

Gly Leu Lys Phe Ser Gly Asp Pro Ser Glu Gln Tyr Thr Ser Val Phe
 1 5 10 15
 Ala Ala Thr Val Glu Leu Thr Val Ser Ala Ala Ser Ala Ser Val Ile
 20 25 30
 Ile Val Asn Val Leu Phe Ile Ile Tyr Ser Cys Leu Phe Asn Ser Thr
 35 40 45
 Ala Asn Tyr Phe Phe Cys His Phe Ile Asn Asn Ile Lys Val Met Ala
 50 55 60
 Gln Thr His Glu Lys
 65 70

<210> 10779

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10779


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<210> 10780
<211> 61
<212> PRT
<213> Enterobacter cloacae
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<210> 10781
<211> 281
<212> PRT
<213> Enterobacter cloacae
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<400> 10781																
Arg	Gly	Gly	Phe	Leu	Met	Ala	Asn	Ser	Phe	Lys	Gln	Met	Thr	Arg	Asp	
1				5					10					15		
Gly	Thr	Ile	Lys	Arg	Thr	Asp	Thr	Gly	Met	Phe	Ile	Ser	Leu	Asp	Gln	
			20					25					30			
Ile	His	Val	Arg	Glu	Gly	Phe	Asn	Lys	Arg	Glu	Asp	Asp	Glu	Arg	Thr	
		35					40					45				
Arg	Gln	Ala	Asp	Asp	Asp	Leu	Phe	Asn	Tyr	Leu	Met	Asn	Gly	Gly	Ser	
	50					55					60					
Val	Pro	Pro	Leu	Glu	Val	Ile	Ala	Arg	Asp	Glu	Gly	Gly	Val	Trp	Val	
65				70						75					80	
Val	Glu	Gly	His	Arg	Arg	Arg	Arg	Cys	Tyr	Ala	Arg	Cys	Ala	Glu	Ala	
			85						90					95		
Gly	Lys	Pro	Val	Asp	Arg	Ile	His	Ile	Met	Pro	Phe	Asn	Gly	Asn	Asp	
			100					105					110			
Val	Gln	Arg	Leu	Ala	Arg	Ile	Met	Thr	Ser	Asn	Asn	Gln	Leu	Pro	Leu	
		115					120					125				
Ser	Asp	Met	Glu	Gln	Ala	Ala	Val	Ile	Gln	Glu	Leu	His	Asn	Ala	Phe	

130	135	140
Asn Gln Thr Thr Ser Glu Ile Ala Lys Leu Val Asn Lys Ser Val Pro		
145	150	155
Thr Val Glu Lys Leu Leu Leu Ser Thr Ala Asn His Asp Val Gln		
	165	170
Lys Glu Val Lys Ser Gly Thr Val Ser Val Asp Val Ala Val Asp Arg		
	180	185
Val Lys Glu Phe Gly Glu Lys Ala Gly Glu Val Leu Gln Lys Asp Lys		
	195	200
Ala Ser Ala Ala Ala Lys Gly Lys Lys Lys Val Thr Arg Ser Val Ile		
	210	215
Ala Pro Glu Ile Ser Val Lys Lys Ala Arg Arg Leu Val Glu Leu Ile		
225	230	235
Ser Leu Ala Gly Ile Ser Asp Thr Gly Val Ile Tyr Leu Glu Gly Leu		
	245	250
Val His Ala Glu Val Val Glu Ile Ile Asp Glu His Lys Ala Ile Ala		
	260	265
Val Gln Arg His Gly Glu Ala Ser		
	275	280

<210> 10782

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10782

Ser Ala Arg Ser Pro Leu Val Asn Leu Pro Leu Glu Glu Ala Ser Asp	
1	5
Ile Ile Arg Glu Ser Leu Arg Thr Glu Val Arg His Glu Leu Glu Tyr	
	20
Glu Tyr Asp Asp Arg Ile Ser Ser Ala Glu Glu Glu Ala Ser Asp Trp	
	35
Glu Ser Arg Ala Asp Ser Tyr Glu Cys Asp Ala Ile Ser Phe Ala Arg	
	50
Ala Ile Glu Lys Ala Leu Leu Ala Pro Thr Leu Asp Glu Ala Lys Ile	
65	70
Ile Leu Glu Arg Val Arg Ser Asp Asn Arg Glu Tyr Phe	
	85
	90

<210> 10783

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10783

Tyr Leu Met Asn Ile Tyr Glu Phe Gly Ser Ile Gln Val Pro Gly Phe	
1	5
Val Gln Pro Lys Phe Ser Ala Val Gln Ser Ala His Asn Thr Glu Lys	
	20
Leu Ser Met Thr Asn Thr Gln Asn Val Thr Glu Leu Gln Pro Arg Met	
	35
Thr Arg Glu Gln Leu Ile Asp Ala Ala Arg Lys Ala Ala Pro Leu Leu	
	50
Pro Pro Ala Tyr Arg Gly Ile Met Thr Glu Leu Ala Asn Arg Leu Asp	
65	70
Tyr Thr Ser Val Ala Leu Cys Glu Ala Met Ala Gln Arg Lys Glu Leu	
	85
Ala Val Gln Asn Ala Thr Leu Arg Glu Asp Val Ala Ser Trp Ala Lys	
	100
Glu Cys Asp Arg Ile Val Glu Arg His Thr Lys Ser Arg Thr Asn Met	
	115
	120
	125

His Leu Leu Glu Ala Gln Arg Glu Leu Arg Glu Leu Ser Pro Ile Val
 130 135 140
 Ile Ser Gln Asn Asn Glu Val Ala Phe
 145 150

<210> 10784
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<400> 10784
 Pro Val Ser Gly Ser Thr Phe Ala Arg Arg Ser Met Phe Gln Leu Lys
 1 5 10 15
 Pro Gly Ser Met Ala Met Ile Val Gly Ala Arg Thr Ala Ala Gly Arg
 20 25 30
 Arg Asn Ile Gly Lys Ser Val Glu Leu Phe Gly Leu Cys Gln Pro Gly
 35 40 45
 Gln Arg Phe Val Asn Pro Val Asn Gly Val Met Thr Gln Leu Pro Asp
 50 55 60
 Thr Ser Ala Arg Ala Leu Trp Leu Val Thr Gly Asp Val Tyr Ala Phe
 65 70 75 80
 Asp Asn Gln His Gly Phe Ala Phe Val Arg Pro Glu His Leu Met Pro
 85 90 95
 Leu Thr Pro Asp Glu Met Pro His Asn Val Asp Glu Leu Ala Ile Gly
 100 105 110

<210> 10785
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 10785
 Val Phe Ser Pro Tyr Ala Ile Pro Gly His Gly Tyr Glu Leu Ala Asp
 1 5 10 15
 Ser Glu His His Arg Arg Asp Asn Tyr Asn Phe Asp Trp Arg His Tyr
 20 25 30
 Ser Ser Ser Ser Arg Pro Arg Tyr Glu Arg Glu Leu Ile Ala Phe Gly
 35 40 45
 Leu Lys Ser Ser Pro Glu Ile Asn Ser Phe Asn Leu Ser Lys Ser Ala
 50 55 60
 Cys Asp Phe Met Arg Lys Val Ser
 65 70

<210> 10786
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10786
 Ile Leu Leu Lys Ala Asp Glu Gly Glu Ala Lys Lys Ser Pro Asp Val
 1 5 10 15
 Glu Ile Gly Ala Lys His Leu Asp Tyr Gly Met Met Phe Ser Gly Gln
 20 25 30
 Cys Glu Asn Arg Tyr His Tyr Lys Arg Glu Ser Cys Arg Phe Asn Gly
 35 40 45
 Glu Ile Met Glu Lys Thr Ala Met Thr Arg Tyr Ser Asp Val Phe Thr
 50 55 60
 Pro
 65

<210> 10787
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10787
 Asn Asn Tyr Trp His Arg His Ala Asp Asp Gln Pro Ala Glu Phe Gly
 1 5 10 15
 Tyr Phe Val Gly Leu Leu His Asp Ser Gly Val Gln Val Arg Gly Phe
 20 25 30
 Thr Phe Pro Pro Gly Asn Val Gly Phe Lys Ala Ala Gln Ala Pro Leu
 35 40 45
 Phe Lys Phe Ser His His Met Pro Tyr Pro Val Met Asp Met Ser Trp
 50 55 60
 Gln Ile Ala Asn Ile Thr Ala Val Ile Thr Thr Thr Leu Thr Gly Gly
 65 70 75 80
 Ile Ile Arg Pro Pro Leu Asp Gln Gly Met Lys Glu Ser
 85 90

<210> 10788
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10788
 Trp Val Val Val Pro Val Thr Ser Ser Asp Ile Thr Ile Ser Pro Val
 1 5 10 15
 Ile Cys Gln Tyr Val Ala Cys Tyr Ile Ser Thr Gly Arg Arg Gly Leu
 20 25 30
 Lys Glu Asn Ser Gln Arg Glu Arg Trp Leu Leu Gly His Ala Leu Leu
 35 40 45
 Val Asp Asp Cys Phe Trp Ser Asn Ser Leu Lys Phe Asn
 50 55 60

<210> 10789
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 10789
 Pro Ser Ser Ser Arg Leu Arg Arg Arg Ser Ala Ala Ile Ser Trp Ser
 1 5 10 15
 Ser Ser Thr Ser Arg Ile Cys Phe Met Gly Lys Pro Ser Ile Ile Cys
 20 25 30
 Tyr Val Val Ser Leu Pro Asp Phe Glu Arg Gly Lys Ser Ser His Phe
 35 40 45
 Val Glu His Cys Val Gly Phe Met Pro Gly Gly Gly Phe Ala Leu Pro
 50 55 60
 Gly Leu Arg Phe Gly
 65 70

<210> 10790
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 10790
 Ala Cys Ile Met Ser Ser Lys Asn Gln Ser Gln Tyr Phe Ser Ile Ala
 1 5 10 15
 Val Tyr Ile Pro Glu Glu Leu Lys Gln Thr Phe Val Glu Glu Cys Ser

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<210> 10791
<211> 105
<212> PRT
<213> Enterobacter cloacae
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<210> 10792
<211> 229
<212> PRT
<213> Enterobacter cloacae
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<400> 10792															
Thr	Leu	Gln	Lys	Glu	Ser	Ser	Met	Asn	Gln	Phe	Thr	Glu	Asp	Leu	His
1				5					10					15	
Asn	Val	Val	Ala	Gln	Ile	Leu	Ala	Gly	Ala	Glu	Ile	Ser	Asp	Ser	Glu
			20					25					30		
Ile	Phe	Lys	Glu	Leu	Thr	Ile	Glu	Pro	Asp	Phe	Tyr	Lys	Val	Gln	Asp
		35					40					45			
Gln	Tyr	Tyr	Gly	Gly	Asn	Gly	Ile	Tyr	Phe	Asn	Ser	Glu	Ser	Glu	Thr
	50					55					60				
Arg	Phe	Ser	Leu	Arg	Ser	Lys	Ser	Lys	Gly	Val	Leu	Tyr	Leu	Ala	Thr
65					70					75					80
Thr	Ala	Phe	Thr	Gly	Leu	Lys	Glu	Phe	Tyr	Gln	Asp	Ala	Pro	Leu	Val
				85					90					95	
Glu	Thr	Glu	Asp	Leu	Glu	Lys	Asn	Cys	Met	Ala	Val	Ile	Gln	Ala	Ala
			100					105					110		
Arg	Thr	Ile	Lys	Ile	Ile	Asp	Leu	Ala	Ala	Leu	Ala	Pro	His	Leu	Lys
		115					120					125			
Thr	Pro	Leu	Gly	Tyr	Leu	Met	Gly	Ser	Lys	Ala	Val	Tyr	Glu	Asp	Thr
	130					135					140				

Gln Trp Leu Ala Glu Val Leu Ser His Tyr Ala Asp Gly Ile Glu Tyr
 145 150 155 160
 Leu Ser Arg His Thr Gly Lys Thr Cys Ile Ala Leu Trp Ser Asp Thr
 165 170 175
 Val Asp Gly Asn Gly Met Leu Lys Asn Ile Ser Val Thr Pro Leu Ile
 180 185 190
 Gln Phe Ser Leu Asn Gly Gln Ser Thr Gln Ala Ile Leu Lys Ser Lys
 195 200 205
 Leu Gly Ile Leu Thr Val Phe Thr Thr Gly Gly Arg Ala Asn Arg Ala
 210 215 220
 Lys Gln Gly Gly Glu
 225

<210> 10793

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10793

Thr Pro Ile Glu Ala Ile Lys Gly Thr Glu Ile Tyr Pro Gly Gly Leu
 1 5 10 15
 Tyr Ala Leu Val Phe Arg Ala Gln Gly Phe Tyr Met Asp Asp Phe Pro
 20 25 30
 Ser Leu Ser Gly Arg Asn Ser Ala Pro Gly Phe Met Pro Val Asn Arg
 35 40 45
 Asp Leu Val Ser Arg Cys Ser Tyr Phe Pro Ser Phe Glu
 50 55 60

<210> 10794

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10794

Gly Pro Lys Met Lys Arg Thr Leu Cys Thr Val Leu Thr Ala Leu Thr
 1 5 10 15
 Leu Ala Thr Ala Leu Pro Ala Ile Gly Ala Thr Thr Glu Ala Gly Ser
 20 25 30
 Thr Ser Ala Ala Thr Thr Gly Thr Thr Gly Ala Thr Val Gly Thr
 35 40 45
 Thr Ala Gly Thr Thr Gly Gly Leu Ala Ala Gly Ala Ile Gly Thr Thr
 50 55 60
 Ala Val Val Thr Thr Ala Ala Ile Ala Gly Val Ala Thr Leu Ala Val
 65 70 75 80
 Val Ala Ala Ser Asp Ser Gly Asp Asp Ser Ser Asn Gly Thr Ser Thr
 85 90 95
 Thr Thr Val Thr Arg
 100

<210> 10795

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10795

Cys Ser Ala Lys Lys Ile Ala Pro His Phe Ser Leu Leu Pro Gly Gln
 1 5 10 15
 Thr Glu Thr Ser Ile Leu Ala Ser Ile Ser Arg His Asp Gly Glu Arg
 20 25 30
 Met Gln Asn Tyr Tyr Gly Ser Leu Thr Phe Ile Ser Arg Lys Asn Phe
 35 40 45

Pro Pro Gln Gln Cys Ala Gly Lys Arg Pro Leu Arg Ala
 50 55 60

<210> 10796

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10796

Trp Asn Leu Cys Lys Ala Cys Glu Gly Ser Ala Asp Phe Ala Ile Pro
 1 5 10 15
 Arg Ala Ile Lys Thr Val Gly Arg Gly His Gly Cys Arg Leu Tyr Arg
 20 25 30
 Ser Leu Arg Arg Cys Leu Ala Ile Ala Asp Leu Gly Gly Arg His Asn
 35 40 45
 Val Ala Pro Leu Tyr Ile Met Ser Tyr His Ser Phe Leu Phe Lys Lys
 50 55 60
 Ala Ala Ile Ala Glu Trp Phe Asp Phe Ala Ile Val Lys Ser Ala Phe
 65 70 75 80
 Pro His Ala Ser
 85

<210> 10797

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10797

Lys Ala Lys Phe Lys Ala Asp Lys Ala Ser Asn Ser Asn Lys Glu Glu
 1 5 10 15
 Arg Glu Thr Phe Phe Arg Phe Phe Tyr Ser Pro Ala Leu Lys Ala Ala
 20 25 30
 Ser Asp Phe Leu Asn Thr Val Leu His Lys Glu Asn Arg Met Thr Val
 35 40 45
 Phe Leu Ile Leu Thr Ala Ile Ala Tyr Gly Ile Phe Lys Ala Gly Cys
 50 55 60
 Phe Ile Leu Leu Val Val Lys Gly Tyr Gln Gly Trp Thr Leu Phe Trp
 65 70 75 80
 Lys Asn Tyr Asp Arg Leu Pro His Ile Ile Arg Ser Arg Cys Arg Tyr
 85 90 95
 Gln Arg Arg Phe Ile Phe Arg Arg Ile Trp Lys Arg Ile Phe Ser His
 100 105 110

<210> 10798

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10798

Leu Phe Leu Asp Ile Ile Asn Leu Val Met Asp Arg Gln Ile Gln Arg
 1 5 10 15
 Glu His Ile Glu Gln Gln Ile Asp Met Ser Leu Gly Asp Gly Ile Lys
 20 25 30
 Ala Ala Phe Arg Arg Ser Ile Met Thr Thr Ser Asn Ala His Phe Cys
 35 40 45
 Arg Lys Thr Gly Ser Leu Met Phe Gln His Arg Ile Lys Ile Tyr Thr
 50 55 60
 Thr Ser Phe His Leu Thr Lys Tyr Ile His Gly Arg Arg Phe Glu Thr
 65 70 75 80

Arg Ile Ile Leu Val Tyr Lys Leu Leu Ile Gly Tyr Ala Gly Ile Phe
 85 90 95
 Lys Ser Leu Ile Pro Asp Gly Val Gln Tyr Leu
 100 105

<210> 10799

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10799

Val Ser Phe Arg Val Phe Asn His Asn Pro Ser Ser Thr Ala Arg Lys
 1 5 10 15
 Leu Ala Arg Pro Met Val Ile Ala Gly Lys Ile Met Trp Lys Glu Thr
 20 25 30
 Val Asn Ala Asn Cys Thr Leu Ala Lys Trp Lys Ala Ser Asn Pro Asn
 35 40 45
 Ile Val His Leu Asn Pro Asp Asn Thr Leu Ile Ile Asn Tyr Phe Leu
 50 55 60
 Ser Asn Gln Ser Leu Asp Glu Lys Phe Arg Leu Leu Lys Thr Ile Ile
 65 70 75 80
 Phe Leu Tyr Glu Ile Lys Thr His Leu Gln Val His Cys
 85 90

<210> 10800

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10800

Ala Met Thr Gln Ala Arg Arg Pro Ser Pro Leu Gln Arg Arg Val Leu
 1 5 10 15
 Ile Val Leu Ala Ala Leu Asp Ser Lys Arg Pro Gly Pro Val Ala Thr
 20 25 30
 Arg Asp Ile Glu Arg Val Leu Glu Gln Gly Gly Asp Ala Pro Val Tyr
 35 40 45
 Gly Pro Asn Leu Arg Ala Ser Cys Arg Arg Met Glu Ala Ala Gly Trp
 50 55 60
 Leu Arg Thr Leu Arg Ala Pro Asn Gln Gln Leu Ala Val Glu Leu Thr
 65 70 75 80
 Gly Ala Gly Arg Asp Val Ala Glu Pro Leu Tyr Gln Ala Ala Arg Asp
 85 90 95
 Asp Glu Ile Ser Arg Gln Arg Gln Leu Lys Val His Ser Leu Pro Leu
 100 105 110
 Arg Glu Ser Thr Thr Gly Glu Ala Val Glu Val Phe Leu Gly Asp Ser
 115 120 125
 Leu His Arg Ile Cys Gln Ala Tyr Val Ile Arg Leu Asp Gly Ser
 130 135 140
 Thr Cys Leu Gln Val Thr Asn Ala Gly Gly Ile Arg Gln Ile Met Glu
 145 150 155 160
 Gly Asp Pro Leu Gln Val Ala Asp Leu Tyr Gln Thr Cys Tyr Asp Ala
 165 170 175
 Gly Leu Pro Val His Ile Gln Ile Asn Glu Ser Gln Asp
 180 185 190

<210> 10801

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10801

Cys Ala Cys Lys Gly Asp Phe Ile Pro Asp Leu Gly Leu Leu Thr Asn
 1 5 10 15
 Asn His Lys Leu Phe Arg Arg Gln Thr Val Asn Lys Asn Pro Ile Leu
 20 25 30
 Tyr Thr Gly Asp Gly Gly Val Leu Lys Thr Phe Pro His Gly Arg Gly
 35 40 45
 Gln Met Lys Gly Asp Ala Cys Val Ile Val Leu Arg Thr Arg Asp Gly
 50 55 60
 Glu Ile Phe His Gln Tyr Phe Ala Ile Ala Val Leu Val Gly Pro Leu
 65 70 75 80
 Leu Pro Leu Tyr Phe Gly Gln Arg Val Met Ser Gly Gly Leu Arg Asp
 85 90 95
 Val Ser Tyr Leu Phe
 100

<210> 10802

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10802

Leu Asn Arg Thr Leu Ser Asp Gly Ala Cys Arg Met Asp Glu Lys Glu
 1 5 10 15
 Val Asn Phe Ser Leu Ser Tyr Glu Gln Leu Thr Arg Ile Ala Glu Glu
 20 25 30
 Arg Ile Arg Glu Cys Glu Leu Asp Ser Gln Gly Ala Lys Tyr Ile Ser
 35 40 45
 Glu Ser Ser Met Ala Ser Thr Leu Leu Gln Phe Trp Tyr Glu Leu Ala
 50 55 60
 Ile Thr Gly Ala Pro Met Lys Asn Tyr Glu Gln Thr Lys Ala Leu Ile
 65 70 75 80
 Asp Val Asp His Gln Arg Leu Arg Lys Leu Ile Trp Pro Glu Thr Asp
 85 90 95
 Lys Gln

<210> 10803

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10803

Val Pro Met Lys Lys Thr Lys Tyr Arg Phe Glu Ser Asp Asp Asp Pro
 1 5 10 15
 Phe Val Ser Lys Asp Val Leu Thr Leu Ile Asp Asn Gly Leu Val Phe
 20 25 30
 Leu Asp Lys Ala Arg Glu Glu Leu Gln Asp Ser Met Pro Lys Phe Ser
 35 40 45
 Ile Val Ser Phe Trp Thr Ala Val Glu Ile Leu Leu Lys Val Pro Leu
 50 55 60
 Leu His Glu His Trp Ser Leu Val Cys Ser Gly Arg Lys Ile Glu Arg
 65 70 75 80
 Ala Arg Tyr Leu Ala Gly Asp Phe Gln Ser Val Thr Tyr Asp Glu Thr
 85 90 95
 Cys Gln Arg Leu Ala Asp Val Leu Glu His Pro Leu Pro Lys Glu Thr
 100 105 110
 Ile Asp Val Phe Lys Lys Val Lys Asp His Arg Asn Arg Val Val His
 115 120 125
 Phe Tyr His Ser Asp Trp His Cys Cys Lys
 130 135

<210> 10804
 <211> 194
 <212> PRT
 <213> Enterobacter cloacae

<400> 10804

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Asn Val Arg Pro Leu Asn Lys Thr Lys Gly Cys Leu Ile Ala Asn Phe
1      5      10      15
Ala Thr Val Pro Asp Ile Asp Pro Lys Gln Thr Pro Asp Asp Ala Ala
20      25      30
Tyr Ala Trp Ser Asn Ile Val Asp Asp Ala Arg Ser Asn Gln Ala Val
35      40      45
Pro Ala Leu Ser Leu Tyr Ser Gly Asn His Trp Ser Thr Ala Lys Glu
50      55      60
Ile Leu Asn Ser Thr Arg Asn Leu Glu Leu Trp Ile Ile Ser Ala Gly
65      70      75      80
Met Gly Phe Leu Asn Cys Arg Asp Arg Val Pro Ser Tyr Glu Ala Thr
85      90      95
Phe His Gln Val Pro Phe Arg His Asp Leu Trp Trp Lys Ala Ile Thr
100     105     110
Lys Ser Leu Gly Lys His Asn Arg Cys Ala Thr Ile Ser Gln Leu Met
115     120     125
Gln Ser Ser Pro Asn Asp Glu Tyr Leu Ile Ala Ala Ser Pro Val Tyr
130     135     140
Ile Ala Ala Val Gln Asn Asp Ile Leu Lys Gly Ile Glu Ser Leu Thr
145     150     155     160
His Pro Leu Thr Gln Leu Thr Ile Val Thr Ser Gly Ala Tyr Ala Gly
165     170     175
Pro Leu Glu Glu Tyr Leu Ile Lys Ser Ser Ser Val Met Thr Pro Thr
180     185     190
Tyr

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<210> 10805
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 10805

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Val Asn Ala Ala Met Leu Ser Leu Thr Asn Lys Glu Asp Asn His Met
1      5      10      15
Asn Ile Lys Thr Leu Lys Asn Asp Thr Val Glu Thr Val Ser Phe Leu
20      25      30
Val Lys Ala Leu Phe Phe Val Val Arg Lys Ile Tyr Leu Lys Pro Ala
35      40      45
Val Ala Val Cys Pro Leu Pro Gln Thr Leu Ala Glu Cys Arg Ile Tyr
50      55      60
Ala Ala Arg Ser Ile Cys
65      70

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<210> 10806
 <211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 10806

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Tyr Ser Lys Pro Thr Gln Arg Glu Arg Gly Met Ser Gln Gln Leu Arg
1      5      10      15
Lys Arg Ser Asp Ile Glu Lys Lys Val Ala Ala Gly Glu Ala Val Lys
20      25      30
Glu Gln Pro Arg Gln Leu Ile Arg Asp Thr Ile Thr Gly Lys Ile Ile

```

35 40 45
 Ser Asn Glu Arg Val Pro Glu Thr Leu Pro Ala Cys Leu Ile Ala Met
 50 55 60
 Gln Ser Asn Thr Leu Val Tyr Asn Asp Val Asp Val Glu Ala Phe Gln
 65 70 75 80
 Arg Glu Val Arg Gln Gln Val Ser Gln Ile Leu Asp Ala Ile Arg Asp
 85 90 95
 Glu Arg Phe Glu Asn Ala Gly Ile Ala Tyr Gln Gln Phe Ile Asp Gln
 100 105 110
 Tyr Asp Ala Cys Phe Glu Thr Pro Ser Val Asp Val Leu Gly Glu Val
 115 120 125
 Lys Arg Arg Gly Ile Asp Leu Tyr Ala Val Leu Glu His Gln Gly Thr
 130 135 140
 Arg Leu Thr Ala Glu Met Cys Val Gly Gly Ser His Asp Arg Ala Ser
 145 150 155 160
 Glu Arg Ser Phe Asn Ala Val Thr Glu Ala His Ile Asn Leu Leu Phe
 165 170 175
 Tyr Met Leu Thr Leu Asn Leu Ala Ile His Asn Lys Ile Asp Asn Val
 180 185 190
 Gln Lys Gln Leu Arg Thr Lys Leu Gly Phe Leu Glu Glu Arg Leu Arg
 195 200 205
 Thr Leu Leu Asn Glu Tyr Ile Tyr Ala Asn Gln Leu Gly Arg Ile Val
 210 215 220
 Leu Asp Gly Leu His Ala Ser Glu Thr Leu Tyr Gly Trp Ile Leu Leu
 225 230 235 240
 Glu Lys Asn Asp Leu Asp Ala Ala Arg Leu Ile Tyr Lys Asn Asp Leu
 245 250 255
 Lys Leu Asn Asn Glu Met Lys Phe Ala Glu Leu His Ala Glu Val Met
 260 265 270
 Ser Ile Tyr Gln Lys Arg Tyr Thr Ser Glu Thr Pro Glu Asp Leu Arg
 275 280 285
 Asn Arg Ala Phe Ser Arg Cys Gly Leu Ser Glu Asp Arg Ala Gln Phe
 290 295 300
 Ala Phe Lys Leu Cys Tyr Tyr Leu His Gln Thr Gly Gln Ile Arg Lys
 305 310 315 320
 Tyr Ile Asp Glu Leu Thr Leu Gly Ala Asp Asn Asn Asp Thr Ser Asp
 325 330 335
 Ala Thr Val Asp Val Arg Ser Leu Leu Val Pro Ser Ala Ser Gly Leu
 340 345 350
 Ala Thr Gln
 355

<210> 10807

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10807

Asn Asn Cys Leu Val Arg Lys Thr Pro Gln Gly Ser Gly Tyr Ser Gly
 1 5 10 15
 Ile Thr Ser Met Gly Ser Phe Ala Cys Arg Ala Trp Asn Ser Ser Met
 20 25 30
 Gln Leu Ile Leu Asn Thr Ser Arg Gly Leu Ser Thr Val Val Ser Ser
 35 40 45
 Leu Ser Ile Ile Tyr Ser Phe Val Cys Asp Ile Tyr Phe
 50 55 60

<210> 10808

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10808

His Thr Met Lys Arg Thr Ile Phe Phe Ala Leu Ser Thr Phe Leu Leu
 1 5 10 15
 Ala Met Thr Ala Ser Ser Val Tyr Ala Ser Thr Glu His Thr Gly Met
 20 25 30
 Ser Asp Leu Arg Val Gln Lys Thr Ala Asn Ala Ser Tyr Cys Asn Pro
 35 40 45
 Gly Ser His Arg Cys Glu Ala Pro Phe Thr Ile Gly Arg Asp Asn Ile
 50 55 60
 Ala Lys Pro Asp Gly Ser Asp Lys Asn Tyr Cys Asn Pro Gly Ser His
 65 70 75 80
 Arg Cys Glu Ala Pro Phe Ser Thr Gly Arg Asp Asn Ile Ala Lys Pro
 85 90 95
 Asp Gly Thr Asp Lys Asn Tyr Cys Asn Pro Asn Ser Arg Lys Cys Asn
 100 105 110
 Ala Pro Phe Thr Thr Gly His Asp Asn Ile Asn Gln
 115 120 125

<210> 10809

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10809

Ala Arg Gln Gly Cys Ser Met Asn Thr Lys Leu Gln Ala Ser Leu Val
 1 5 10 15
 Lys Val Pro Gln Ile Thr Leu Thr Phe Trp Ile Val Lys Ile Ala Val
 20 25 30
 Thr Thr Leu Gly Glu Thr Gly Gly Asp Ala Val Ser Met Ser Met Gly
 35 40 45
 Ile Gly Tyr Ala Gly Arg Val Met Thr Pro Thr Tyr
 50 55 60

<210> 10810

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10810

Ser Pro Lys Phe Phe Ser Lys Leu His Ile Thr Pro Pro Thr Ile Lys
 1 5 10 15
 Asn Tyr Ser Gln His Tyr Leu Tyr Arg Ala Val Ser Gly Met Ile Val
 20 25 30
 Val Ala Asp Thr Ile Thr Lys Ile Leu His Phe Cys Asn Arg Pro His
 35 40 45
 Leu Ser Leu His Tyr Cys Asn Leu Leu Asp Thr Phe Asn His Val Leu
 50 55 60
 Asn Asn Val Leu Ala Ser Glu Phe Leu Ser His Thr Lys Lys
 65 70 75

<210> 10811

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10811

Ser Ala Val Glu Ala Asp Ser Pro Asp Glu Tyr Gly Asn Ser His Pro
 1 5 10 15
 Arg Gln Glu Thr Met Arg Pro Gln Gln Asn Thr Ser Pro Ala Phe Pro
 20 25 30

Met Asn Lys Val Pro Glu Val Thr Leu Phe Phe Trp Leu Ile Lys Met
 35 40 45
 Met Ser Thr Thr Val Gly Glu Thr Ala Ala Asp Phe Leu Asn Met Asp
 50 55 60
 Leu Asn Trp Gly Leu Thr Asn Thr Ser Leu Leu Thr Gly Ile Leu Phe
 65 70 75 80
 Ala Val Val Leu Thr Phe Gln Leu Arg Ala Asn Arg Tyr Ile Pro Ala
 85 90 95
 Leu Tyr Trp Ser Thr Val Leu Leu Ile Ser Val Phe Gly Thr Leu Ile
 100 105 110
 Thr Asp Asn Met Thr Asp His Phe Gly Val Pro Leu Ala Leu Ser Thr
 115 120 125
 Ser Val Phe Gly Gly Leu Leu Val Leu Thr Phe Gly Leu Trp Tyr Ala
 130 135 140
 Lys Glu Lys Thr Leu Ser Ile His Ser Ile Asn Ser Leu Lys Arg Glu
 145 150 155 160
 Thr Tyr Tyr Trp Ile Ala Ile Leu Phe Thr Phe Ser Leu Gly Thr Ala
 165 170 175
 Ala Gly Asp Trp Ala Ala Glu Ser Leu Gly Leu Gly Tyr Leu Asn Ala
 180 185 190
 Ala Ile Val Phe Gly Ala Leu Ile Ala Leu Thr Ala Val Ser Arg Tyr
 195 200 205
 Leu Phe Lys Ala Asn Ser Val Leu Cys Phe Trp Ile Ala Tyr Ile Leu
 210 215 220
 Thr Arg Pro Leu Gly Ala Ser Cys Gly Asp Leu Leu Ser Gln Pro Leu
 225 230 235 240
 Thr Ser Gly Gly Leu Gly Leu Gly Thr Thr Gly Thr Ser Ile Leu Phe
 245 250 255
 Leu Leu Thr Ile Thr Ser Leu Ile Gly Tyr Leu Thr Tyr Lys Met Lys
 260 265 270
 Leu Glu Glu Ile Asn Arg
 275

<210> 10812

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10812

Lys Arg Asn His His Phe Ala Gly Cys Asn Lys Arg Gly Ala Ser Val
 1 5 10 15
 Phe Val Phe Ala Phe Ser Lys Asn Gln Thr Pro Cys Ile Gln Asn His
 20 25 30
 Ser Tyr His Phe Leu Lys Asn Asp Phe Thr Ile Phe Ile Ser Lys Ala
 35 40 45
 Gly His Ser Leu Ser Phe Tyr Gly Gln His Thr Pro Asp Glu Pro Ala
 50 55 60
 Tyr Pro Ile Val Asn Ile Trp His
 65 70

<210> 10813

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10813

Pro Pro Gly Thr Asp Val Asp Pro Arg Pro Gln Val Cys Ile Leu Ala
 1 5 10 15
 Val Ala Ala Gly Ala Cys Pro Ala Ser Cys Pro Ala Val Cys Pro Ala
 20 25 30
 Gln Ala Val Val Glu His Gly Arg Gly Asn Ala Phe Ile Pro His Ile

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<210> 10814
<211> 162
<212> PRT
<213> Enterobacter cloacae
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<210> 10815
<211> 82
<212> PRT
<213> Enterobacter cloacae
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<210> 10816
<211> 160
<212> PRT
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<213> Enterobacter cloacae

<400> 10816

Thr Met Leu Asn Ile Leu Ile Gln Glu Thr Asp Leu Phe Phe Gln Ala
 1 5 10 15
 Gly Leu Gln Ser Phe Phe Glu Asp Phe Phe Lys His Asn Phe His Arg
 20 25 30
 Ser Ile Thr Phe His Leu Ala Leu Thr Asn Glu Asn Val Ser Gln Ala
 35 40 45
 Asp Ile Ile Val Leu Ser Leu Cys Gln Gly Glu Thr Leu Thr Cys Phe
 50 55 60
 Pro Glu Leu Leu Ala Arg Gln Lys Gly Ile Val Ile Gly Leu Val Asp
 65 70 75 80
 Asp Glu Leu Arg Phe Ser Ala Leu Pro Ser Cys Phe Gln Asp Ile Ile
 85 90 95
 Phe Leu Pro Arg Arg Ala Ser Leu Asp Arg Ile Ser Gly Val Leu Phe
 100 105 110
 Ile Ala Trp Phe Thr Thr Gln Leu Pro Gly Tyr Thr Trp Asn Lys Lys
 115 120 125
 Thr Cys Phe Asp Cys Gln His Lys Gly Leu Ser Arg Gln Gln Ile Arg
 130 135 140
 Ile Leu Val Asn Phe Tyr Arg Gly Leu Ser Val Val Gln Thr Ala
 145 150 155 160

<210> 10817

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10817

Lys Ser Ile Ala Arg Leu Ala Thr Val Ala Phe Thr Ala Thr Val Glu
 1 5 10 15
 Leu Leu Arg Thr Gly Lys Gly Tyr Ser Asp Gln Ile Ala Ile Met Pro
 20 25 30
 Val Gly Ile Lys Gly Met Ser Phe Glu Met Arg Leu Asn Cys Leu Asn
 35 40 45
 Thr Cys Phe Cys Met Leu Thr Gln Leu Lys Pro Val Val Cys His Thr
 50 55 60
 Ala Leu Leu Leu Pro Ser Ala Leu Ser His Leu Ala
 65 70 75

<210> 10818

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 10818

Ser Phe Asn Ile Asn Glu Ala His Met Arg Asn Phe Asp Met His Gly
 1 5 10 15
 Lys Gly His Gly Arg Gly Leu Gly Arg His Arg Met Gly Lys Gly Ile
 20 25 30
 Val Ile Gly Ala Val Leu Phe Val Val Leu Gly Leu Leu Val Met Ser
 35 40 45
 Leu Trp Asn Ala Leu Leu Pro Ala Ile Leu Gly Val Lys Ala Ile Gly
 50 55 60
 Phe Trp Gln Ala Leu Gly Ile Leu Leu Leu Ser Arg Ile Leu Phe Gly
 65 70 75 80
 Gly Leu Gly Phe Arg Pro Gly Met Phe Gly Ala His Arg Arg Met His
 85 90 95
 Glu Gln Trp Met Asn Met Ser Pro Glu Gln Arg Glu Ala Phe Ile Gln
 100 105 110

Gln Arg Arg Ala Gly Phe Gly Arg His Gly His Cys Arg Trp His Asp
 115 120 125
 Gly Arg Asp Glu Lys Arg Asp Asn Gly Ala Lys Ala Pro Glu Ala
 130 135 140
 Glu
 145

<210> 10819
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 10819
 Asp Tyr Arg Thr Pro Met Thr Ala His Val Ser Asn Asp Pro Leu His
 1 5 10 15
 Gly Val Thr Leu Glu Met Gln Val Asn Ala Leu Val Ala Arg Tyr Gly
 20 25 30
 Trp Asn Glu Leu Gly Asn Arg Ile Lys Ile Asn Cys Phe Arg Lys Asp
 35 40 45
 Pro Ser Val Lys Ser Ser Leu Lys Phe Leu Arg Arg Thr Pro Trp Ala
 50 55 60
 Arg Ala Glu Val Glu Ala Leu Tyr Leu Asp Ser Leu His Asp Asp Gly
 65 70 75 80
 Asn Gly Glu Gln Asp Glu Pro Ala Phe Asn Pro Trp Thr Asp Ser Arg
 85 90 95
 Thr Pro Arg Ser
 100

<210> 10820
 <211> 77
 <212> PRT
 <213> Enterobacter cloacae

<400> 10820
 Phe Asn Gln Gly Leu Ile Thr Val Arg Ile Asp Leu Arg Arg Asp Ile
 1 5 10 15
 Arg Gly Ile Thr Val Lys Pro Asn Leu Phe Gln Cys Ile Thr Ser Glu
 20 25 30
 Met Ser Val Arg Arg His His Ser Pro Asp Asn Lys Gln Phe Val Asn
 35 40 45
 Ile Ile Leu Thr Gln Arg Thr Ser Leu Leu Ile Val Gln Ile Ala Gly
 50 55 60
 Cys Glu Ala Arg His Ser Phe Phe Ser Phe Tyr Pro
 65 70 75

<210> 10821
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10821
 Ala Ile His Phe Phe Leu Ser Leu Ser Glu Phe Ser Ile Pro Asp Tyr
 1 5 10 15
 Leu Met Val Gly Phe Lys Tyr Lys Thr Gly Gln Lys Ile Leu Asn Gln
 20 25 30
 Glu Ala Met Leu Ser His Phe Phe Ala Thr Phe Pro Thr Val Ala Ala
 35 40 45
 Ala Val Phe Ser Asp Asn Ser Tyr Ser Leu Thr Val Asn Ala Gly Met
 50 55 60
 Gly Ala
 65

<210> 10822
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 10822

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Arg Met Ile Arg Gln Gly Phe Ile Leu Thr Thr Ala Met Leu Leu Ser
1          5          10          15
Gly Cys Gly Tyr His Phe Ala Asn Gln Val Asp Ala Tyr Asp Leu Met
20          25          30
Pro Arg Pro Val Thr Asn Lys Arg Phe Gln Ile Val Pro Asp Glu
35          40          45
Ser Ile Gln Ser Arg Met Phe Ser Gly Arg Phe Ala Asp Gly Leu Ala
50          55          60
Lys Lys Gly Val Ile Ile Ser Thr His Gln Pro Asp Tyr Val Leu Arg
65          70          75          80
Phe Arg Ile Ser Ser Ser Gln Glu Asn Met Gln Tyr Ser Glu Gln Leu
85          90          95
Leu Thr Gly Val Thr Gly Tyr Val Val Asp Lys Lys Thr Thr Arg Thr
100         105         110
Asp Lys His Gly Glu Leu His Thr Asp Tyr Asp Tyr Lys Pro Val Asp
115         120         125
Gly Val Ile Gly Thr Glu Thr Met Ser Gln Met His Tyr Met Arg Gln
130         135         140
Leu Asp Val Glu Val Tyr Pro Ser Ala Lys Gly Ala Lys Gln Val Leu
145         150         155         160
Lys Val Ser Met Gln Ser Asn Ala Pro Val Pro Ser Asp Ser Ile Ala
165         170         175
Tyr Ser Ala Met Ile Asp Ala Phe Thr Asp Lys Phe Asp Ala Pro Leu
180         185         190
Arg Ser Gly Asn Tyr Val Ala Val Ile Pro Trp Asn
195         200         205

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<210> 10823
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 10823

```

Thr Thr Cys Ala Glu Thr Glu Leu Asn Ile Tyr Leu Ser Val Glu Gln
1          5          10          15
Phe Asn Asn Thr Val Arg Pro Asn Phe Leu Lys Ser Leu Ser Asp His
20          25          30
Pro Asp Ala Leu Ala Thr Phe Glu Pro Asn Asp Leu Met Lys Leu Cys
35          40          45
Asn Arg Gln Gly Pro Leu Trp Val Ala Gly Ser Pro Gln Asp Pro Ser
50          55          60

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65

<210> 10824
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 10824

```

Asn Thr Ile Asn Lys Leu Glu Ser Leu Pro Ser Glu Val Asn His Tyr
1          5          10          15
Tyr Glu His Cys Thr Val Pro Val Ile Asp Trp Phe Phe Lys Gln Ala
20          25          30

```

Thr Glu Ala Leu His His Gly Leu Trp Leu Pro Ala Cys Thr Ser Phe
 35 40 45
 Leu Asn Gly Ile Glu Thr Ser Leu Arg Val Thr Leu Lys Leu Lys Ser
 50 55 60
 Thr Val Asn Val Gln Gln Ser Val Pro Val Leu Val Asp Leu Asp Gly
 65 70 75 80
 Thr Ser Val Met Ser Asn Ala Leu Met Arg Lys Ala Lys Gln Glu Gly
 85 90 95
 Met Pro Ile Glu Leu Leu Ser Phe Pro Ala Glu Lys Asn Met Leu Ala
 100 105 110
 Lys Ile Asp Ala Gly Lys Lys Pro Glu Ala Asp Ile Val Arg Leu Arg
 115 120 125
 Asn Ser Leu Cys His Gly Asn Ile Leu Glu Phe Ile Met Ser Val Lys
 130 135 140
 Val Gly Ser Pro Asp Pro Ile Arg Ile Phe Thr Pro Gly Asn Cys Cys
 145 150 155 160
 Gly Leu Ala Leu Leu Leu Ser Ala Leu Ser Lys Lys Trp Thr Val Gly
 165 170 175
 Leu His Gln Tyr Trp Ile Asp Asn Asn Leu Thr Ser Cys
 180 185 190

<210> 10825

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10825

Thr Met Lys Leu Lys Asn Ile Leu Leu Cys Ala Met Met Ser Val Ala
 1 5 10 15
 Phe Gly Ser Ser Ala Asn Thr Thr His Lys Val Glu Asn Glu Pro Ile
 20 25 30
 Pro Asn Ile Ile Leu Asp Gly Lys Val Asp Asp Ile Cys Lys Asp Ala
 35 40 45
 Ser Ile Arg Thr Glu Leu Asn His Asp Lys Ala Lys Glu Leu Val Thr
 50 55 60
 Thr Asn Leu Lys Gln Ala Leu Pro Leu Asn Thr Val Pro Asp Lys Leu
 65 70 75 80
 Asp Glu Val Ala Glu Ala Phe Val Asn Arg Asp Lys Gly Ala Ser Glu
 85 90 95
 Thr Ala Asp His Cys Leu Val Asn Val Arg Asn Lys Tyr Trp Glu Met
 100 105 110
 Tyr Pro Ser Glu Asp Lys
 115

<210> 10826

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10826

Glu Val Cys Met Lys Ser Thr Leu Leu Ser Thr Leu Met Leu Val Ala
 1 5 10 15
 Val Gly Val Gln Pro Val Phe Ala Ala Gln Cys Gln Tyr Gly Ala Cys
 20 25 30
 Gly Thr Glu Asn Asp Pro Gly Ile Gly Phe Leu Met Ser Ser Val Gln
 35 40 45
 Met Asp Lys Gly Glu His Leu Lys Glu Leu Ser Gly Val Ala Thr Thr
 50 55 60
 Gly Asp Thr Ile Ser Lys Lys Met Glu Ser Tyr Leu Gly Asn Lys Lys
 65 70 75 80
 Leu Lys Val Asn Thr Asp Ser Thr Arg Lys Gly Pro Gly Asn Thr Thr

				85					90				95				
Ile	Arg	Pro	Thr	Asp	Glu	Leu	Ala	Pro	Thr	Arg	Gln	Leu	Lys	Val	Ile		
			100					105					110				
Arg	Pro	Glu	Leu	Val	Lys	Asn	Pro	Asp	Ser	Gln	Leu	Val	Val	Ala	Phe		
		115					120					125					
Asn	Glu	Arg	Leu	Ala													
	130																

<210> 10827

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 10827

Glu	Arg	Pro	Glu	Gly	Lys	Lys	Met	Ser	Ile	Leu	Ser	Ser	Phe	Val	Ile		
1				5					10					15			
Arg	Ala	Thr	Gly	Ile	Pro	Asp	Lys	Lys	Tyr	Leu	Arg	Asp	Pro	Val	Ile		
			20					25					30				
Lys	Arg	Cys	Tyr	Lys	Arg	Leu	Ser	Arg	Arg	Val	Pro	Ala	Leu	Met	Thr		
		35					40					45					
Gly	Trp	Leu	Leu	Cys	Ile	Leu	Gly	Ser	Gly	Tyr	Val	Ser	Met	Ala	Leu		
	50					55					60						
Glu	Gln	Pro	Asp	Ser	Thr	Val	Leu	Leu	Ser	Leu	Leu	Leu	Tyr	Val			
65					70					75					80		
Met	Ser	Gly	Ile	Leu	Leu	Met	Gln	Phe	Gln	Tyr	Met	Tyr	Ser	Glu	Arg		
				85					90					95			
Ser	Ile	Gly	Tyr	Lys	Phe	Tyr	Leu	Glu	Val	Leu	Met	Asn	Ala	Ala	Ala		
			100					105					110				
Ser	Thr	Gln	His	Lys	Glu	Gln	Leu	Gln	Tyr	Leu	Phe	Ile	Asn	Lys	Pro		
		115					120					125					
Asn	Ser	Ile	Thr	Met	Gly	Asp	Leu	Tyr	Arg	Leu	Tyr	Asp	Phe	Asn	Gly		
	130					135					140						
Gly	Gly	Arg															
145																	

<210> 10828

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 10828

Lys	Arg	Pro	Cys	Tyr	Thr	Ser	Ser	Asn	Leu	Phe	Phe	Val	Cys	His	His		
1				5					10					15			
Asn	Arg	Ile	Arg	Lys	Gly	Glu	Arg	Ser	Met	Thr	Arg	Ile	Ala	Leu	Ala		
			20					25					30				
Pro	Ser	Lys	Met	Val	Leu	Leu	Met	Ser	Leu	Val	Ile	Thr	Gly	Ala	His		
		35					40					45					
Ala	Ser	Pro	Glu	Gln	Pro	Leu	Ile	Lys	Asp	Thr	Pro	Phe	Val	Ser	Gly		
	50					55					60						
Gln	Ala	Tyr	Lys	Lys	Gly	Phe	Phe	Trp	Tyr	Asp	Asp	Pro	Ala	Lys	Lys		
65					70					75					80		
Ser	Glu	Ala	Glu	Glu	Glu	Glu	Val	Leu	Pro	Pro	Thr	Gly	Ala	Ala	Ser		
				85					90					95			
Ser	Pro	Ser	Lys	Glu	Glu	Met	Val	Asp	Leu	Asn	Ser	Lys	Trp	Leu	Lys		
			100					105					110				
Glu	Asn	Met	Pro	Arg	Leu	Leu	Thr	Gln	Ala	Met	Asp	Asn	Pro	Thr	Ala		
		115					120					125					
Glu	Asn	Leu	Ser	Arg	Tyr	Tyr	Thr	Ala	Gln	Arg	Leu	Met	Leu	Asp	Ile		
	130					135					140						
Ser	Thr	Arg	Phe	Ser	Asp	Lys	Ser	Lys	Asp	Tyr	Phe	Leu	Lys	Asn	Pro		
145					150					155					160		

Met Met Ser Glu Lys Arg Arg Gln Pro Val Glu Lys Val Ala Leu Asp
165 170 175
Ala His Arg Thr Val Val Glu Lys Asn Gln Gln Thr Val Met Lys Asp
180 185 190
Ile Phe Thr Lys Ser Gly Leu Phe Phe Phe Gln Ser Thr Cys Gln
195 200 205
Phe Cys His Glu Glu Ser Gln Ile Leu Gln Phe Met Gln Asn Tyr Tyr
210 215 220
Ser Val Asp Ile Leu Pro Ile Ser Met Asp Gly Arg Pro Leu His Asn
225 230 235 240
Gly Leu Phe Gln Asp Phe Asn Ile Pro Asn Ala Gln Ile Ile Asp Gln
245 250 255
Phe Lys Ile Arg Glu Val Pro Thr Ile Phe Leu Val Ser Lys Asp Gly
260 265 270
Thr Ser Ala Gln Arg Ile Ser Glu Gly Met Ile Ser Ala Asp Glu Leu
275 280 285
Lys Asn Thr Ile Ile Leu Ala Ala Lys Gly Met Asn Leu Ile Asp Asp
290 295 300
Ala Ser Phe Gln Ser Thr Leu Asp Ile Lys Arg Gln Tyr Thr Ile Gly
305 310 315 320
Asp Asp Gly Val Ile Thr Val Asn Lys Ser Glu Met Glu Ser Asp Pro
325 330 335
Phe Leu Leu Gln Lys Ile Met Asp Gln Lys Leu Glu Gly Tyr Asp Met
340 345 350
Pro Thr Ala Asp Pro Val Asn Tyr Leu Asn Ala Gly Gly Ser Phe Gly
355 360 365
Gly Thr Tyr Ala Gln
370

<210> 10829

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10829

Thr Asn Ala Ala Lys Ile Arg Gln Thr Ser Arg Gln Thr Arg Cys Ala
1 5 10 15
Asp Phe Ile Glu Thr Ser Phe Glu Ser His Met Leu Pro Leu Lys Tyr
20 25 30
Ile Val Thr Phe Ile Asn Ala Ile Gln Ala Lys Ser Met Asn Leu Arg
35 40 45
Ile Leu Arg Ala Val Ser Asp Arg Gln Cys Asn Ala Ile Ala Tyr
50 55 60

<210> 10830

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10830

Leu Ser Lys Glu Val Ser Met Lys Ser Ala His Leu Val Cys Leu Leu
1 5 10 15
Val Cys Leu Ile Phe Ala Ala Phe Val His Ala Gln Glu Lys Ser Ala
20 25 30
Pro Glu Lys Glu Ala Gln Ile Lys Gln Gln Val Leu Lys Asp Val Lys
35 40 45
Lys Thr Cys Thr Pro Gln Lys Lys Gln Ser Asp Lys Ala Trp Gln Ala
50 55 60
Met Ile Leu Ser Ser Glu Ala Asn Gln Leu Leu Ile Lys Asn Ala Ile
65 70 75 80
Thr Ala Val Lys Arg Asp Asn Leu Asp Ala Tyr Trp Asp Ala Val Ser

85 90 95
 Gln Val Asp Cys Met Glu Asp Tyr
 100 105

<210> 10831
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 10831
 Phe Ser Leu Ser Thr Val Phe Ala Trp Arg Ser Trp Cys Gly Asn Thr
 1 5 10 15
 Val Pro Lys Pro Glu Gly Thr Arg Met Tyr Asp Val His Val Ile Phe
 20 25 30
 Arg Asp Gly Pro Gly Glu Leu Ala Arg Phe Gly Gln Leu Leu Gly Arg
 35 40 45
 Asn Gly Val Gly Leu Glu Gly Gly Gly Val Phe Gly Thr Asp Ala His
 50 55 60
 Phe Leu Val Glu Asp Gly Glu Lys Ala Arg Arg Val Leu Leu Asp Ala
 65 70 75 80
 Gly Phe Thr Val Gln Ala Leu Arg Lys Pro Val Ile Arg Lys Leu Lys
 85 90 95
 Gln Glu Arg Pro Gly Glu Leu Gly Glu Ile Ala Ala Ala Leu Ala Ala
 100 105 110
 Arg Gly Val Ser Ile Leu Thr Gln Tyr Ser Asp His Ala Asn His Leu
 115 120 125
 Ile Leu Leu Thr Asp Asp Asp Lys Leu Ala Ala Glu Ile Thr Thr Pro
 130 135 140
 Trp Ala Thr Asn Val Lys Asp Glu Leu Thr Leu
 145 150 155

<210> 10832
 <211> 363
 <212> PRT
 <213> Enterobacter cloacae

<400> 10832
 Ala Cys Phe Thr Met Ser Ile Ser Thr Leu Ala Arg Val Phe Thr Pro
 1 5 10 15
 His Gly Asn Ile Val Tyr Thr Ala Asn Asp Phe Arg Gln Thr Leu Arg
 20 25 30
 Ile Val Phe Ala Gly Met Ile Ala Leu Ser Ile Ser Ser Phe Tyr Asn
 35 40 45
 Thr Ser Tyr Gly Val Phe Phe Val Val Tyr Pro Ile Met Leu Leu Ser
 50 55 60
 Leu Val Pro Val Phe Asn Arg His Val Ala Lys Gln Phe Ile Phe Ser
 65 70 75 80
 Ala Ser Leu Asn Cys Val Glu Met Val Leu Ile Ile Gly Tyr Leu Ser
 85 90 95
 Gln Trp Pro Val Ile Met Thr Leu Val Val Phe Ala Leu Tyr Val Met
 100 105 110
 Arg Phe Arg Phe Met Ser Lys Gly Pro Leu Phe Leu Phe Gly Ser Met
 115 120 125
 Gly Val Val Cys Gln Ser Val Met Leu Asn Phe Met Ser Tyr Pro Thr
 130 135 140
 Thr Asn Trp His Thr Leu Phe Ser Asn Ile Glu Ala Ser Val Met
 145 150 155 160
 Ala Val Cys Leu Ser Ala Leu Met Asn Tyr Leu Leu Pro Asp Val Glu
 165 170 175
 Pro Arg Lys Pro Pro Pro Leu Ile Glu Lys Asp Asp Ala Arg Val Arg
 180 185 190

His Glu Ser Leu Leu Ser Gly Thr Val Ala Thr Leu Ile Phe Val Val
 195 200 205
 Phe Gln Ile Ser Asp Leu Ser Asp Ser Leu Ser Ala Leu Met Ala Gly
 210 215 220
 Ile Leu Ile Leu Phe Pro Met His Tyr Arg Gly Ser Val Ile Ser Ser
 225 230 235 240
 Ile Trp Arg Val Val Gly Val Val Leu Gly Cys Leu Tyr Ile Leu Val
 245 250 255
 Val Gln Leu Ile Leu Tyr Asp His Ser Ser His Met Leu Leu Met Met
 260 265 270
 Pro Leu Ile Gly Leu Gly Leu Ala Phe Gly Ala Arg Leu His Val Met
 275 280 285
 Glu Lys Val Gly Ala Gly Val Gly Phe Ala Ser Ile Thr Thr Ile Gly
 290 295 300
 Ile Met Phe Gly Gln Asn Met His Pro Asp Ser Asp Leu Val Phe Ser
 305 310 315 320
 Asp Leu Tyr Arg Ile Thr Ser Val Thr Phe Ala Leu Val Val Thr Leu
 325 330 335
 Thr Met Val Phe Leu Val His Leu Ile Leu Asn Arg Phe Glu Ala Thr
 340 345 350
 Arg Tyr Val Ile Ala Pro Pro Lys Ala Asp
 355 360

<210> 10833

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10833

Phe Ile Lys Gly Pro Gln His Gly Arg Arg Gly Ala Gly Ile Ile Asn
 1 5 10 15
 Tyr Lys Val Asp His Ser Cys Ser Trp Arg Arg Ala Val Ser Arg Thr
 20 25 30
 Ala Gly Ala Gly Asn Cys Val Gln Cys Ala Pro Val Asn Gly Leu Ile
 35 40 45
 Pro Phe Phe Arg Arg Asn Leu Glu Gly Asp Lys Ile Val Ile Ile Gln
 50 55 60
 Ser Arg Asp Lys Gln Arg Arg Phe Phe Ile Ile His Lys Ser Gly
 65 70 75 80
 Ala Glu

<210> 10834

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (90)

<400> 10834

Arg Ser Gly Phe Ile Tyr Pro Gln His Arg Leu Ile Gln Glu Val Thr
 1 5 10 15
 Tyr Asp Ser Phe Arg Ser Asn Phe Leu Phe Phe Tyr Tyr Phe Leu Gly
 20 25 30
 Ser Leu Leu Pro Val Tyr Pro Ala Pro Ile Thr Lys Lys Val Gly Met
 35 40 45
 Leu Val Val Pro Leu Thr Leu Thr Phe Gly Cys Tyr Ile Tyr Ala Ile
 50 55 60
 His Leu Asp Asp Ser Ala Gln Gln Thr Asn Leu Leu Val Val Thr Thr

65 70 75 80
 Gly Asp Lys Ser Thr Arg Ala Lys Arg Xaa
 85 90

<210> 10835
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10835
 Ile Glu Ala Val Leu Val Leu Ile Ala Ile Pro Val Arg Pro Val Ser
 1 5 10 15
 Thr Ala Gly Ile Ser Ile Pro Phe Ala Arg Glu Lys Thr Phe Thr Thr
 20 25 30
 Asp Gly Ile Lys Ser Ala Ser Gln Ser Thr Tyr Pro Cys Lys Gln Ile
 35 40 45
 Asp Lys Ala Lys Val Pro Val Leu Ile Ile Ser Arg Ser
 50 55 60

<210> 10836
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 10836
 Ile Arg Ser Thr Lys Gly Gly Lys Arg Val Met Gly Arg His Gln Pro
 1 5 10 15
 Cys Pro Thr Met Ala Val Glu Thr Gly Lys Arg Lys Ala Gln Lys Gly
 20 25 30
 Glu Arg Glu Glu Ile Thr Met Met Lys Glu Pro His Pro Leu Leu Gln
 35 40 45
 Leu Val Leu Asn Asp Ser Gly Arg Leu Thr Met Pro Val Tyr Tyr Arg
 50 55 60
 Asp Gln Gln Tyr Cys Pro Thr Cys Leu Thr Lys Val Leu Lys Ser Glu
 65 70 75 80
 Asp Gly Ser Leu Ala His Leu Gly Glu Ile Asn Gln Asn Thr Cys Arg
 85 90 95
 Pro Ser Ile Ser Val Val Val Thr Lys Ala Ile Ile Glu Met Leu Cys
 100 105 110
 Asp Gly Glu Lys Ile Phe Val Asn Pro Ile Arg Tyr Arg Gly Arg Val
 115 120 125
 Leu Ala Pro Ser Val Ile Phe Ser Pro Asp Thr His Thr Phe Lys Pro
 130 135 140
 Phe Ile Asn Thr Asp Tyr Gln Pro Val Gly Ala Asn Trp Lys Ser Glu
 145 150 155 160
 Lys Gly Tyr Lys Leu Gly Leu Phe Tyr Leu Lys Asp Arg Ala Asn Ser
 165 170 175
 Ile Asn Lys Glu Phe Asp Phe Ile Ala Val Ile Asp Pro Lys Ala
 180 185 190
 Met Gln Lys Glu Phe Ile Ser Ala Trp Ser Glu Val Asp Glu Lys Asn
 195 200 205
 Pro Leu Glu Thr Leu Lys Gln Ile Leu Arg Ser Lys Asn Asn Ser Ser
 210 215 220
 Leu Trp Val Lys Trp Pro Gly Lys Ile Glu His Ala Gln Lys Gly Asn
 225 230 235 240
 Cys Asn Glu Asn Tyr Trp Phe Asp Tyr Gln Ser Asp Asn Gln Glu Val
 245 250 255
 Asn Cys Thr Val Ser Val Val Gly Ile Glu Gly Asn Ser Ser Gly Glu
 260 265 270
 Thr Ile Tyr Arg Leu Gln Thr Leu Leu Lys Arg Lys Leu Asn Glu Tyr
 275 280 285

Gln Leu Val Arg Ser Leu Gly Thr Ile Met Leu Leu Asp Asn Thr Gly
 290 295 300
 Asn Met Ile Pro Ser Asn His Pro Tyr Phe Glu Val Ile Ser Lys Ala
 305 310 315 320
 Cys Ile Asn Gly Val Arg Asp Phe Val Arg Gln Asn Pro Trp Val Val
 325 330 335

<210> 10837

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 10837

Leu Val Ser Pro Ala Arg Tyr Gly Ile Leu Phe Met Phe Gly Arg Leu
 1 5 10 15
 Gln Tyr Arg Pro Gly Thr Met Asp Lys Gln Gly Pro Gln Ile Gly Ile
 20 25 30
 Thr Ser Leu Ala Tyr Pro Glu Gln Asp Leu Phe Thr Pro Thr Gly Val
 35 40 45
 Leu Thr Trp Asn Gln Ser Glu Pro Gly Ser Gln Leu Ser Ala Ile Leu
 50 55 60
 Glu Ile Val Gly Phe Thr Asn Gly Arg Asn Gln Arg Ala Gly Gly Asn
 65 70 75 80
 Arg Ala Asn Thr Arg Asp Leu Ala Asp Thr Leu Ala Glu Ser Ile Leu
 85 90 95
 Pro Ile Ala Leu Leu Asn Leu Leu Val Glu Cys Ser Asp Asp Ile Glu
 100 105 110
 Gln Val Arg His Val Val Leu
 115 120

<210> 10838

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 10838

Glu Thr Thr Met Ser Gln Lys Phe Ala Val Met Ile Ala Tyr Asp Asp
 1 5 10 15
 Asp Pro Asn Val Lys Arg Tyr Ser Pro Asp Phe Gln Thr Gln Asp Glu
 20 25 30
 Phe Ala Lys Gly Trp Gln Ser Ala Leu Lys Lys Ala His His Thr Ser
 35 40 45
 Gly Gln Lys Ser Val Ile Thr Cys Gly Cys Arg Gly Lys Gly Glu Lys
 50 55 60
 Arg Leu Tyr Val Arg Ala Leu Pro Asn Gly Asp Ala Phe Ile Leu Val
 65 70 75 80
 Lys Ala Ala Asn Thr Gly Ile Glu His Asp Pro Ser Cys Val Phe Phe
 85 90 95
 Ser Leu Asp Ala Arg His Thr Gly Leu Lys Gly Tyr Ala Ser Gly Val
 100 105 110
 Val Arg Ile Thr Thr Glu Gly Asp Met Ala Val Arg Leu Gly Ile Gly
 115 120 125
 Met Thr Glu Lys Asp Pro Pro Glu Lys Ser Glu Val Pro Pro Leu Pro
 130 135 140
 His Val Gln Arg Pro Glu Gly Gly Gln Ala Ser Met Thr Leu Leu Gly
 145 150 155 160
 Leu Leu Ser Leu Leu Trp Thr Glu Ser Gly Leu Asn Val Trp Tyr Pro
 165 170 175
 Lys Met Ala Gly Lys Arg Asn Asp Ser Leu Val Arg Tyr Arg Leu Leu


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<210> 10839
<211> 72
<212> PRT
<213> Enterobacter cloacae
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```
<210> 10840
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

<400> 10840
Ala Ser Asn Ala Val Met Val Ser Pro Ser Thr Ile Leu Thr Thr Phe
1 5 10 15
Ala Ser Lys Val Val Glu Phe Pro Gln Asp Ala Thr Gly Asn Thr Thr
20 25 30

Ile Met Met Gly Lys Ser Asn Phe Val Lys Lys Asn Ile Ile Ser Pro
 35 40 45
 Glu Phe Val Glu Tyr Arg His Val Ser Thr Ser Leu Phe Thr Gly Ser
 50 55 60
 Ile Leu Thr Ser His Tyr Phe Met Gly Gly Leu Lys Thr Asn Leu Phe
 65 70 75 80
 Ala Thr

<210> 10841
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10841
 Cys Gln Arg Ser Thr Met Thr Tyr Phe Glu Ser Ala Glu Gly Glu Thr
 1 5 10 15
 Val Ser Lys Glu Arg Ala Leu Gln Glu Leu Ser Arg His Cys Val Pro
 20 25 30
 Glu Thr Asp Phe Glu Glu Phe Phe Ser Asp Met Gly Val Lys Glu Gln
 35 40 45
 Tyr Asp Ala Gln Glu Val Leu Leu Trp Leu Gly Tyr
 50 55 60

<210> 10842
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 10842
 Phe Lys Ala Thr Met Asn Met Lys Lys Pro Lys Ala Ala Leu Gln Asn
 1 5 10 15
 Ala Met Lys Glu Asp Val Pro Ala Val Thr Gln Ile Gln Met Arg Ser
 20 25 30
 Thr Val Ser Arg Lys Val Arg Tyr Val Lys Gln Ala Asn Arg Glu Gly
 35 40 45
 Leu Lys Leu Ser Glu Trp Met Ser Arg His Leu Asp Ala Val Cys Asp
 50 55 60
 Thr Ala Asp Glu Ile His Lys Gly Lys Arg Ser Thr Pro Val Ala Pro
 65 70 75 80
 Gly Lys Ile Pro Pro Glu Val Tyr Gln Val Ile Tyr Asp Gln Cys Gly
 85 90 95
 Gly Phe Val Glu Cys Asp Ala Asn Ala Gln Val Ile Trp Glu Ala Cys
 100 105 110
 Arg Asp Ala Ile Leu Asn Gly Asp Lys Gly
 115 120

<210> 10843
 <211> 110
 <212> PRT
 <213> Enterobacter cloacae

<400> 10843
 Gly Asn Arg Met Cys Asp Phe Cys Arg Ala Asp Glu Asn Tyr Phe His
 1 5 10 15
 Met Ala Glu Cys Val Tyr Asp Gln Leu Val Lys Glu Tyr Pro Val Met
 20 25 30
 Trp Leu Arg Asp Ser Thr Arg Ile Gly Ala Cys Tyr Leu Cys Arg Glu
 35 40 45
 Leu Leu Ser Pro Glu Gly Met Val Leu Ala Met Gln Ser Ala Phe Pro
 50 55 60

Ala Lys Gly Trp Arg Leu Arg Ile Trp Tyr Asn Glu Thr Ile Asp Glu
 65 70 75 80
 Glu Ile Glu Pro Gln Arg Gly Asp Cys Ile Glu Leu Ser Ser Arg Ala
 85 90 95
 Asp Ala Leu Leu Ser Phe Met Ser Phe Gln Glu Lys Val
 100 105 110

<210> 10844

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10844

Ala Arg Ile Ala Asp Thr Ser Leu Val Pro Ser Phe Ile Arg Asn Ser
 1 5 10 15
 Gln Ser Glu Phe Arg Val Ser Gln Val Asn Ile Asn Ser Val Lys Gln
 20 25 30
 Thr Ile Asn Met His Lys Thr Met Gly Trp Phe Gly Ile Phe Met Ala
 35 40 45
 Phe Phe Ser Cys Gln Arg Lys Ala Glu Val Ser Pro Ser Val Arg Asn
 50 55 60
 Arg Asp Val Met Leu Trp Phe Arg Glu Cys Val
 65 70 75

<210> 10845

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10845

Phe Thr Ser Asp Met Ala Thr Cys Glu Met Gly Met Val Thr Val Ile
 1 5 10 15
 Thr Met Cys Leu Leu Ala Val Leu Val Thr Gln Pro Leu Lys His Ile
 20 25 30
 Thr Phe Lys Tyr Asp Phe Leu Leu Gly Leu Asn Met Cys Leu Ser Ile
 35 40 45
 Val Arg Gln Pro Ile Phe Thr Pro Thr His Glu Leu Asn Lys Asn His
 50 55 60
 Lys Leu Asn Glu Arg Phe Asn Ser Leu Ala
 65 70 75

<210> 10846

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10846

Ile Cys Ala Leu Val Ser Phe Trp Ala Glu Leu Leu Lys Pro Asp Ile
 1 5 10 15
 Pro Ser Arg Pro Tyr Ile Lys Gln Ser Ala Ser Ser Ser Thr Gly Gly
 20 25 30
 Gln Cys Leu Thr Gly Asn Ser Lys Asp Ile Leu Phe Ala Asp Lys Phe
 35 40 45
 Asp Ile Gly Phe Thr His Ser Lys Ser Lys Leu Leu Lys Thr Leu Leu
 50 55 60
 Tyr Arg
 65

<210> 10847

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 10847

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Ile Cys Leu Ile Arg Leu Ser Met Met Asn Lys Glu Gln Leu Ile Asp
1      5      10      15
Lys Leu Glu Arg Val Val Cys Gly Gln Tyr Ser Tyr Glu Met Gln Glu
20      25      30
Leu Ala Tyr Ser Ala Leu Cys Cys Ile Lys Gly Thr Pro Asp Asp Cys
35      40      45
Ala Lys Phe Pro Val Thr Arg Pro Leu Pro Asp Thr Leu Val Asp Val
50      55      60
Trp Asp Glu Ile Gly Gln Tyr Leu Gly Thr Gly Lys Ala Ile Glu Thr
65      70      75      80
Arg Ser Cys Gly Val Ser Leu Leu Leu His Gly His Cys Tyr Asp Ser
85      90      95
Asn His Val Leu Tyr Trp Arg Asn Ala Gly Ala Leu Pro Ala Ala Cys
100     105     110
Asp Thr Pro Leu Ala Gly Gly Ser Arg Lys Leu Phe Thr Cys Ser Ala
115     120     125
Cys Gly Val Asp Gly Leu Asp Glu Pro Pro Glu Thr Ser Cys His Cys
130     135     140
Cys Thr Glu Gly Ala His Trp Ile Glu Ser Arg Leu Phe Thr Ser Gly
145     150     155     160
Gln Ala Asp Pro Glu Glu Phe Arg Pro Val Ala Val Val Lys Glu Cys
165     170     175
Ala Gly Ser Thr Pro Asp Asp Arg Leu Ile Trp Ser Val Ile Glu Gln
180     185     190
Leu Asn Gly Glu Leu Ala Glu Gly Asp Lys Leu Phe Lys Gln Arg
195     200     205

```

<210> 10848

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10848

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Ser Gly Lys Pro Ala Val Met Pro Phe Leu Thr Glu Thr Lys Gly Lys
1      5      10      15
Arg Gln Val Ser Pro Val Ile Phe Thr Leu Val Arg Lys Ile Leu Met
20      25      30
Asn His Glu Ser Arg Thr Val Tyr Leu Asn Thr Ala Ile Glu Ala Leu
35      40      45
Leu Lys Ala Glu Ala Ala Leu Asn Glu Leu Ala Leu Ala Tyr Val Leu
50      55      60
Lys Pro Gly Glu Lys Ala Ser Ala Cys His Pro Arg Thr Gly Thr Leu
65      70      75      80
Ser Thr Ala Ser Gln Val Arg Lys Leu Arg Arg Val Leu Glu Lys Asn
85      90      95
Lys Leu

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<210> 10849

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10849

```

Leu Ser Gln Pro Arg Arg Ile Ser Pro Leu Ile Arg Thr Phe Leu Lys
1      5      10      15
Ser Ser Asp Asp Phe Ser Arg Glu Leu Ser Phe Leu Phe His Arg Ser
20      25      30

```

Ile Lys Ile Arg Asn Ser Gly Phe Ala Ile Phe Gly Ala Gly Leu Leu
 35 40 45
 Ile Met Ile Phe Gly Leu Cys Leu Trp Leu Leu Ser Leu His Leu Ser
 50 55 60
 Pro Ser Val Leu Asp Phe Asp Ile Asp Val Pro Leu Ser Phe Phe Asn
 65 70 75 80
 Ser Ser Glu Gly Glu Asp Lys Leu Val Val Ser Asp Phe Gly Asp Ala
 85 90 95
 Phe Gly Gly Phe Leu Thr Thr Tyr Ser Lys Leu Leu Leu Gly Ile Met
 100 105 110
 Gly Leu Leu Val Val Ser Ser Thr Ala Phe Lys Ile Leu Lys Gly Glu
 115 120 125
 Glu Ile Gly Glu Ile Phe Pro Met Leu Leu Ile Ala Gly Ala Phe Leu
 130 135 140
 Ile Gly Leu Ser Val Phe Thr Ser Ala Leu Gly Ser Glu Glu Thr Asp
 145 150 155 160
 Ala Thr Ser Ala Ser Thr Val Lys Val Ile Lys Lys Tyr Val Lys His
 165 170 175
 Glu Lys Tyr Asp Lys Leu Val Ala Tyr Leu Asn Asp Ser Asn Trp Pro
 180 185 190
 Ser Gly Glu Glu Val Ser Val Asn Tyr Leu Lys Ala Gln Leu His Ile
 195 200 205
 Lys Leu Gly Lys Pro Asp Val Lys Leu Thr Gln Asn Val Val Arg Ala
 210 215 220
 Tyr Met Ser Gly Val Leu Gln Ser Asn Ile Pro Val Lys Val Arg Tyr
 225 230 235 240
 Ala Leu Glu Lys Thr Ala Leu Asp Lys Ser Val Ser Pro Leu Ala Ile
 245 250 255
 Arg Tyr Glu Gln Lys Arg Met Ser Lys Ser His Thr Phe Ser Lys Ala
 260 265 270
 Ser Val Asn Cys Leu Lys Val Gly Ser Pro Val Ala Phe Val Gly Val
 275 280 285
 Leu Phe Ala Leu Leu Gly Ile Lys Ile Arg Arg Arg Val Arg Phe Leu
 290 295 300
 Glu Ser Asn
 305

<210> 10850

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10850

Gly Tyr Met Met Cys Asn Phe Thr Pro Val Gln Ile Ile Ala Asp Tyr
 1 5 10 15
 Ile Leu Arg Phe Leu Lys Asn Asn Thr Asp Ala Lys Leu Tyr Glu Ala
 20 25 30
 Met Gln Arg Leu Glu Lys Lys Ile Gly Gln Phe Val Ala Asp Gly Val
 35 40 45
 Asp Glu His Gln Leu Arg Ser Ser Leu Ser Lys Val Cys Arg Ser Arg
 50 55 60
 Ser Arg Ala Ala Leu Lys Glu Glu Cys Glu Gln Leu Ile Pro
 65 70 75

<210> 10851

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10851

Gly Arg Glu Gly Met Ser Gly Leu Ser Ser Ser Ala Gln Lys Leu Thr

```

1           5           10           15
Arg Ala Gln Ile Tyr Val Leu Arg Arg Met Ala Ser Gly Thr Ile Tyr
                20                25                30
Asp Ile Ser Gly Asn Phe Arg Arg Ala Arg Glu Arg Arg Thr Phe Met
                35                40                45
Gly Asn Pro Asp Asp Val Thr Cys Arg Ser Ser Pro Val Leu Phe Arg
                50                55                60
Leu Gly Leu Val Glu Leu Cys Gln Pro Val Arg His Leu Glu Pro Gly
65                70                75                80
Leu Tyr Tyr Arg Leu Lys Leu Ser Ser Ser Gly His Glu Ala Leu Lys
                85                90                95
Ala Asn Ala His Leu
                100

```

<210> 10852

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10852

```

Glu Thr Glu Pro Asp Thr Ser Leu Leu Ser Gly Lys Ala Gly Gln Gln
1           5           10           15
Met Glu Arg Gln Glu Leu Asn Pro Leu Val Leu Ile Met Ile Glu Glu
                20                25                30
Asn Lys Met Lys Asp Asn Lys Thr Arg Pro Val Asp Ser Tyr Ala His
                35                40                45
Ala Asp Phe Met Glu Ser Val Phe Ser Asn Leu Arg Ala Phe Cys Asp
                50                55                60
Ala Glu Cys Gln Arg Leu Thr Ala Gly Tyr Pro Pro Thr Val Lys Pro
65                70                75                80
Glu Gln Gln Ser Thr Asp Gly Gln Leu Ser Ala Ala
                85                90

```

<210> 10853

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10853

```

Ile Ile Thr Cys Gln Phe Val Gln Ile Ser Ala Ser Leu Ser Pro Gly
1           5           10           15
Gln Lys Pro Gly Ser Ile Gln Lys Leu Asn Val Pro Val Tyr Leu Tyr
                20                25                30
Ile Ser Ser Ile Pro Cys Asp Leu Gln Glu Thr Arg Thr Gly Leu Ala
                35                40                45
Ile Pro Val Leu Pro Leu Ser His His Trp Pro Arg Gln Pro Glu Lys
                50                55                60

```

65

<210> 10854

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10854

```

Trp Ala Thr His Ser Val Ser Thr Ser Leu Thr Ile Lys Val Leu Phe
1           5           10           15
Met Ser Asn Ser Phe Asp Lys Pro Gln Thr Leu Pro Val His Asn Ser
                20                25                30
Asp Ala Glu Pro Phe Phe Pro Lys Asn Leu Gly Pro Phe Ile Glu Gln

```

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<210> 10855
<211> 118
<212> PRT
<213> Enterobacter cloacae
```

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<210> 10856
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10857
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

<400> 10857

Lys	Asn	Arg	Tyr	Ala	Gly	Lys	Arg	Val	Ile	Pro	Pro	Phe	Ser	Thr	His
1				5					10					15	
Asn	Phe	Thr	Val	His	Leu	Pro	Leu	Thr	Leu	Pro	Val	Ile	Asn	Gly	Ile
			20					25					30		
Leu	Ser	Asp	Trp	Ala	Asp	Pro	Thr	His	Asn	Leu	Asn	Cys	Trp	Leu	Thr

	35		40		45									
Val	Leu	Gln	Pro	Asn	Ser	Leu	Leu	Tyr	Leu	Ala	Gly	Val	Arg	Pro
	50					55					60			

<210> 10858

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10858

Cys	Cys	Pro	Leu	Lys	Arg	Glu	Ser	Lys	Pro	Val	Thr	Thr	Leu	Val	Phe
1				5					10					15	
Glu	Met	Ala	Asp	Ile	Asn	Lys	Leu	Ile	Glu	Glu	Ile	Arg	Thr	Ala	Lys
			20					25					30		
Thr	Phe	Ser	Val	Thr	Pro	Asp	Gln	Ile	Tyr	Asp	Pro	Ala	Cys	Tyr	Pro
		35					40					45			
Gly	Gly	Ala	Leu	Leu	Asn	Ala	Glu	Gly	Gln	Thr	Glu	Glu	Glu	Ala	Arg
	50					55					60				
Lys	Ala	Gly	Arg	Val	Phe	Phe	Pro	Ser	Ser	Ser	Lys	Ile	Ala	Ser	Thr
65					70				75						80
His	Leu	Val	Pro	Lys	Val	Leu	Leu	Ala	His	Ser	His	Gly	Val	Tyr	Leu
				85					90					95	
Ile	Thr	Asn	Ala	Glu	Leu	Glu	Gly	Ser	Pro	Ala	Ser	Arg	Asp	Thr	Val
		100						105					110		
Ala	Tyr	Ala	Gln	Gly	Met	Asn	Pro	Lys	Leu	Asp	Glu	Asp	Trp	Asp	Tyr
		115					120					125			
Ala	Cys	Asp	Ala	Ala	Leu	Gly	Gly	Ser	Asp	Cys	Ser	Tyr	Thr	Ile	Pro
	130					135					140				
Val	Glu	Trp	Leu	Glu	Leu	Ala	Val	Glu	Gln	Gly	Phe	Gln	Glu	Phe	Arg
145					150				155						160
Leu	Arg	Met	Ser	Glu	Thr	Asn	Ile	Lys	Leu	Val	Ser	Lys			
				165					170						

<210> 10859

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10859

Glu	Phe	Ser	Leu	Asn	Gly	Arg	Gln	Pro	Met	Lys	Met	Phe	Phe	Thr	Pro
1				5					10					15	
Tyr	Val	Arg	Ile	Val	Phe	Tyr	Phe	Cys	Ala	Leu	Ile	Phe	Ile	Val	Tyr
		20						25					30		
Ser	Phe	Ser	Asp	Phe	Phe	Gln	Gly	Val	Pro	Asp	Ser	Thr	Phe	Phe	Ser
		35					40					45			
Ala	Val	Ile	Thr	Leu	Leu	Val	Ile	Gly	Thr	Ile	Val	Ala	Arg	His	Leu
	50					55					60				
Asp	Arg	Lys	Lys	Ser	Leu	Lys	Tyr	Thr	Ser	Gln	Ile				
65					70					75					

<210> 10860

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10860

Phe	Asn	Lys	Asp	Arg	Phe	Met	His	Asn	His	Glu	Ile	Gln	Thr	Ile	Ala
1				5					10					15	
Ile	Phe	Ser	Ala	Gln	Tyr	Lys	Asn	Ile	Glu	Asp	Ala	Glu	Asn	Ala	Gly
		20						25					30		
Ala	Leu	Tyr	Ser	Val	Asp	Ile	Glu	Tyr	Pro	Met	Thr	Leu	Asn	Asp	Leu


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<210> 10861
<211> 79
<212> PRT
<213> Enterobacter cloacae
```

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<210> 10862
<211> 109
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10863
<211> 97
<212> PRT
<213> Enterobacter cloacae
```

<400> 10863															
Gly	Tyr	Asn	Met	Lys	Ile	Ser	Gln	Leu	Glu	Ser	Gly	Met	Gln	Val	Trp
1				5					10					15	
Ser	Val	Thr	Arg	Thr	Lys	Met	Gly	Asn	Thr	Thr	Ile	Ser	Thr	Val	Ile
			20					25					30		
Val	His	Pro	Val	Val	Ile	Ile	Glu	Ile	His	Asp	Asn	His	Val	Ile	Ala
		35					40					45			
Arg	Trp	Asn	Gly	Asn	Ala	Pro	Arg	Arg	Phe	Gly	Glu	Thr	Ala	Ile	Arg
	50					55					60				
Gly	Trp	Lys	Lys	Glu	Lys	Pro	Leu	Leu	Val	Arg	Glu	Pro	Phe	Gly	Asn

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<210> 10864
<211> 206
<212> PRT
<213> Enterobacter cloacae
```

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<210> 10865
<211> 117
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 10866
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 10866
 Lys Lys Cys Arg Thr Trp Tyr Cys Cys Val Val Ala Gln Leu Asn Asn
 1 5 10 15
 Gln Pro Lys Glu Arg Thr Lys Met Ser Ala Ile Glu Thr Glu Val Lys
 20 25 30
 Asn Asn Ser Asn Glu Ile Ser Leu Arg Gly Tyr Leu Glu Arg Thr Gly
 35 40 45
 Asn Gly Ala Arg Lys Gly Asn Gly Leu Ile Ile Asp Pro Ser Val Val
 50 55 60
 Val Gln Gln Glu Gly Phe Asn Thr Arg Thr Ala Gly Met Gly Glu Leu
 65 70 75 80
 Tyr Tyr Ser Met Pro His Val Val Glu His Leu Asn Ser Leu Ala Asp
 85 90 95
 Ala Tyr Met Glu Asp Pro Phe Ser Val Thr Pro Ile Val Val Gln Met
 100 105 110
 Val Asn Gly Val Pro Val Leu Arg Gln Gly Ala Cys Arg Ile Arg Ser
 115 120 125
 Ile Ala Ile Ala Asn Arg Gln Leu Glu Ala Glu Gly Arg Glu Arg Ile
 130 135 140
 Thr Arg Ile Arg Cys Glu Gln Phe Arg Gly Ser Ala Ser Lys Ala Glu
 145 150 155 160
 Leu Phe Thr Leu Thr Gly Asn Ser Asn Leu Ala Leu Ser Val Val Thr
 165 170 175
 Glu Ala Leu

<210> 10867
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10867
 Ala Gly Ala Asp Lys Met Glu Asp Ala Ile Asn Val Pro Ile Thr Tyr
 1 5 10 15
 Tyr Asp Ser Asn Gly Cys Leu Ile Val Gly His Asn Leu Val Gly Lys
 20 25 30
 Ile His Pro Gln Leu Phe Asp Lys Leu Val Arg Arg Ser Asn Asp Gly
 35 40 45
 Ser Thr Arg Cys Gln Gln Ala Lys Ile Thr Ser Tyr Leu Glu Gly Leu
 50 55 60
 Leu Asn Gly
 65

<210> 10868
 <211> 92
 <212> PRT
 <213> Enterobacter cloacae

<400> 10868
 Arg Gly Asn Arg Ile Met Ser Ile Pro Met Lys Gly Leu Ser Lys Arg
 1 5 10 15
 Gly Trp Tyr Asn Ser Leu Thr Asp Ser Val Glu Tyr Lys Tyr Phe Asn
 20 25 30
 Gly Gln Thr Glu Ile Ser Glu Ser Ala Tyr Lys Leu Leu Ala Ser Gly
 35 40 45

Asn Lys Pro Lys Pro Thr Val Lys Pro Ala Lys Ala Val Thr Thr Tyr
 50 55 60
 Lys Val Lys Pro Lys Pro Thr Ile Glu Gln Gln Arg Asp Ala Ala Leu
 65 70 75 80
 Lys Glu Ala Ile Lys Gln Met Val Ser Gly Gly
 85 90

<210> 10869

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10869

Lys Leu Gly Ala Val Pro Val Arg Gln Gly Val Val Val Gly Gly Val
 1 5 10 15
 Ala Pro Gln Pro Leu Thr His Arg Leu Thr Lys Asn Leu Gly Asn Ser
 20 25 30
 Val Arg Lys Pro Glu Phe Ala Asp Arg Trp Gly Arg Pro Thr Gly Phe
 35 40 45
 Tyr Ser Gly Ala Ser Gly Ser Lys Arg Ala His Trp Ser Trp Thr Trp
 50 55 60
 Val Leu Thr Ala Trp Lys Thr Ala Lys Trp Leu Ala Thr Trp Cys Met
 65 70 75 80
 Lys Met Pro Gln Arg Ala His Pro Ile Leu Leu Arg Ser Arg Ala Ala
 85 90 95
 Leu Ala Arg

<210> 10870

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10870

Pro Ile Ala Ser Val Lys Leu Phe Ala Cys Leu Leu Ser Pro Leu Ser
 1 5 10 15
 Leu Gln Glu Val Ser Asn Met Thr His Ile Phe Tyr Glu Phe Ser Ser
 20 25 30
 Leu Lys Pro Gly Val Pro Asp Val Glu Thr Leu Met Glu Val Ile Asn
 35 40 45
 Ser Ser Glu Leu Thr Arg Phe Val Met Gly Ala Glu Val Val Asp Phe
 50 55 60
 Val Lys Lys Ala Leu Ile Val Asn Thr Thr Ile Gly Ser Phe Lys Asn
 65 70 75 80
 Cys Tyr Phe Ala Phe Asp Asp Gly Ala Tyr Phe Leu Glu Phe Asp Gly
 85 90 95
 Lys Gly Lys Ser Arg Arg Phe Thr Glu Val Pro Asp Trp Phe Val Ser
 100 105 110
 Pro Ala Glu Phe Ala Arg Ser Gln Trp Leu Ile Asn His Asp Leu Ala
 115 120 125
 Asp Val Lys Ala Thr Ala Phe Ile Asp Val Leu Met Ser Tyr Pro Leu
 130 135 140
 Lys Glu Arg Arg Ala His Cys Asn Leu Leu Phe Gly Leu Asp Leu His
 145 150 155 160
 Lys Val Asn Val Val Pro Ala Pro Thr Ala Pro Ala Gly Lys Met Gly
 165 170 175
 Asn Lys Asn Gly Lys Thr Thr Lys Pro Arg Val Thr Asp Leu Gly Ser
 180 185 190
 Phe Glu Leu Phe Thr Ala Phe Phe Ala Arg Met Lys Thr Ala Val Asn
 195 200 205
 Ala Asn Glu Phe Pro Thr Leu Gln Val Leu Thr Gly Gln Glu Asp Leu

210		215		220
Thr Lys Ala Pro His Asn Leu Lys Gln Gly Ile Arg Thr Trp Phe Lys				
225		230		235
Ala Ile Thr Gly Asp Leu Pro Pro Asn Asn Lys Arg Val Gly Ala Gly				240
		245		250
Asn Ala Val Leu Phe Cys Ala Pro Val Arg Glu Gln Ile Gln Gln Ile				255
		260		265
Glu Ala Ile Gly Leu Glu Lys Tyr Tyr Gln Gly Leu Ser Lys Ala Ile				270
		275		280
Ala Asp Ala Gly Asp Gly Phe Ile Thr Asp Phe Ser Tyr Thr Trp Ser				285
		290		300
Glu Lys				
305				

<210> 10871

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10871

Arg Ser His Asp Phe Gln Glu Gly Ala Phe Ala Ala Ala Gly Gly Thr	
1	5
Gly Tyr Gln Phe Lys Phe Ala Arg Arg Glu Thr Lys Ile Asp Val Leu	10
	20
Lys Asp Gly Val Ile Thr His Thr Lys Ala Asn Ile Pro Asp Ile Gln	25
	35
Lys Ile Phe Phe Ile Ile His Ser Asp Ser Ile Asn Arg Cys Asp Lys	40
	50
Lys Ser Leu Lys His Asn Pro Phe Arg Tyr Ala Ala Leu Ile Ala Leu	45
	65
Thr Tyr Ser Lys Cys	70
	85

<210> 10872

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10872

Arg Cys Trp Ala Asn Val Ile Thr Val Leu Ser Gly Glu Gln His Asp	
1	5
Ser Phe Lys Thr Ser Lys Arg Leu Ile Glu Leu Ile Leu Ile Thr Asn	10
	20
Ile Thr Gly Asp Ser Asn Ile Arg Ile Lys Met Thr Leu Leu Phe Val	25
	35
Glu Val Ser Asn Ile Lys Ile Ser Leu Gly Asn Leu Asp	40
	50
	55
	60

<210> 10873

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10873

Cys Phe Ala Gly Trp Arg Phe Ala Tyr Pro Ala Tyr Arg Thr Val Gly	
1	5
Pro Val Ser Ala Ser Ala Thr Gly Gln Lys Gly Asp His Thr Val	10
	20
Ala Phe Phe Tyr Tyr Asn Ser Ser Arg Ala Ala Asp Thr Met Ser Cys	25
	35
Ala Val Arg Pro Tyr Ser Phe Cys Lys Lys Ser Cys Val Pro Thr	40
	45

50

55

60

<210> 10874

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10874

Phe	Asp	Glu	Leu	Thr	Leu	Ile	Val	Tyr	Gly	Pro	Ile	Arg	Leu	Ala	Gln
1				5					10					15	
Asp	Thr	Arg	Tyr	Gly	Val	Ala	Met	Thr	Lys	Tyr	Phe	Glu	Arg	Cys	His
		20						25				30			
Ser	Leu	Leu	Trp	Phe	Cys	Thr	Lys	Ile	Leu	Ile	Phe	Ile	Arg	Glu	Val
		35					40					45			
Glu	Val	Gln	Pro	Cys	Arg	His	Pro	Lys	Ser	Arg	Pro				
	50					55					60				

<210> 10875

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10875

Ala	Ser	Asp	Lys	Val	Ile	Gly	Leu	Asp	Val	Phe	Ala	Asp	Leu	Val	Val
1				5					10					15	
Val	Asp	Gly	Ala	Ile	Thr	Tyr	Gln	Arg	Val	Ser	Asp	Glu	His	Leu	Pro
			20					25				30			
Val	Leu	Asn	Asn	Glu	Arg	Lys	Arg	Asn	Gly	Arg	Ser	Gly	Leu	Val	Arg
		35					40				45				
Tyr	Gly	Glu	Ala	Val	Ser	His	Glu	Asp	Asn	Leu	Arg	Leu	His	Ala	Gly
	50					55				60					
Arg	Arg	Ile	Leu	Asn	Ala	Asp	Pro	His	Pro	Cys	Arg	Val	Ile	Leu	Thr
65					70					75				80	
Ile	Ala	Gly													

<210> 10876

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10876

Phe	Leu	Ile	Lys	Ile	Lys	His	Glu	Ile	Ser	Gly	Lys	Pro	Val	Leu	Asn
1				5					10					15	
Leu	Ile	Ala	Gly	Lys	Gly	Cys	Phe	Val	Leu	Lys	Tyr	Ile	Pro	Thr	Leu
		20						25				30			
Asp	Val	Leu	Asn	Gly	Ile	Thr	Phe	Lys	Leu	Ser	Val	Asp	Asn	Thr	Phe
		35					40				45				
Pro	Leu	Arg	Pro	Asp	Ser	Leu	Ile	Gln	Phe	His	Gln	Pro	Gly	Ile	Ile
	50					55					60				
Ile	His	Phe	Val	Tyr											
65					70										

<210> 10877

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10877

Gly	Ile	Ile	Met	Ile	Arg	Met	Glu	Val	Lys	Gly	Leu	Gln	Glu	Phe	Glu
1				5					10					15	

Arg	Gln	Leu	Leu	Ser	Leu	Gly	Glu	Lys	Val	Gly	Thr	Gln	Val	Leu	Arg
		20						25					30		
Glu	Ala	Gly	Lys	Ala	Ala	Leu	Glu	Pro	Val	Leu	Glu	Asp	Met	Lys	Ala
		35					40					45			
His	Ala	Gly	Tyr	Asp	Glu	Ser	Ala	Lys	Asp	Glu	His	Met	Arg	Asp	Ser
	50					55					60				
Ile	Lys	Ile	Arg	Ser	Ser	Ser	Ser	Lys	Ala	Lys	Gly	Asn	Ala	Val	Val
65					70						75			80	
Tyr	Leu	Arg	Val	Gly	Pro	Ser	Lys	Lys	His	Phe	Ile	Lys	Ala	Leu	Ala
			85						90					95	
Gln	Glu	Met	Gly	Thr	Val	Lys	Gln	Val	Ala	Ser	Pro	Phe	Ile	Arg	Pro
		100						105					110		
Ala	Leu	Asp	Tyr	Gln	Lys	Ala	Lys	Val	Leu	Arg	Ile	Leu	Ala	Ile	Glu
		115					120					125			
Ile	Arg	Asp	Arg	Ile	Glu	Asn	His	Arg							
	130					135									

<210> 10878

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10878

Arg	Phe	Tyr	Gly	Thr	Asn	Leu	Cys	Ala	Asn	Leu	Cys	Ser	Lys	Gln	Arg
1				5					10					15	
Ser	Lys	Thr	Met	Lys	Ile	Val	Leu	Ser	Val	Leu	Leu	Leu	Thr	Ala	Phe
			20					25					30		
Asn	Ser	Tyr	Ala	Gly	Thr	Val	Asp	Asp	Tyr	Leu	Glu	Arg	His	Ser	Glu
		35					40					45			
Ile	Lys	Ser	Asn	Ser	Val	Ala	Glu	Thr	Tyr	Val	Ser	His	Tyr	Ala	Phe
	50				55					60					
Met	Ile	Ala	Met	Met	Glu	Ala	Gln	Gln	Lys	His	Asn	Arg	Ser	Asp	Asn
65					70					75				80	
Glu	Phe	Ile	Thr	Gly	Leu	Leu	Ser	Asn	Asn	Gly	Asp	Val	Tyr	Ala	Arg
			85						90					95	
Leu	Ala	Val	Lys	Lys	Leu	Ala	Asn	Asp	Cys	Leu	Thr	Gln	Arg	Ser	Ile
		100					105						110		
Gly	Gln	Ser	Gly	Glu	Leu	Asn	Asn	Lys	Glu	Cys	Asn	Ile	Val	Ile	Arg
		115					120					125			
Ala	Asp	Lys	Ser	Glu	Gln										
	130					135									

<210> 10879

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10879

Leu	Ile	Thr	Ile	Ala	Ala	Phe	Gly	Pro	Leu	Phe	Phe	Arg	Gly	Lys	Gln
1				5					10					15	
Met	Leu	Asp	Gln	Asn	Val	Val	Lys	Gln	His	Cys	Arg	Ile	Asp	Thr	Asp
			20					25					30		
Phe	Thr	Gly	Asp	Asp	Ala	Leu	Leu	Glu	Ile	Tyr	Thr	Gly	Ala	Ala	Ala
		35					40					45			
Arg	Tyr	Val	Gln	Thr	Trp	Thr	Arg	Arg	Thr	Leu	Tyr	Glu	Lys	Glu	Ser
	50				55					60					
Ser	Pro	Gly	Tyr	Ala	Asp	Asp	Pro	Asp	Pro	Ile	Leu	Leu	Asn	Asp	Asp
65					70					75				80	
Val	Lys	Ala	Ala	Met	Leu	Leu	Leu	Ile	Gly	His	Trp	Tyr	Ala	Asn	Arg
			85					90						95	
Glu	Ser	Val	Val	Ile	Gly	Glu	Thr	Val	Ser	Gln	Val	Pro	Leu	Ala	Val

		100						105			110
Glu	Ala	Leu	Leu	Gln	Pro	Tyr	Arg	Ile	Tyr	Gly	Leu
		115					120				125

<210> 10880

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10880

Gly	Glu	Leu	Arg	Glu	His	Gly	Asn	Gly	Arg	Pro	Leu	Thr	Gly	Pro	Leu
1				5					10					15	
Phe	Phe	Gln	Glu	Asn	Trp	Met	Ala	Glu	Tyr	Gly	Val	Gln	Thr	Trp	Asp
			20					25				30			
Ala	Ser	Gly	Lys	Val	Asn	Asn	Tyr	Gly	Val	Lys	Pro	Val	Ser	Val	Cys
		35					40					45			
Gly	Tyr	Leu	Gln	Leu	Ala	Gln	Asn	Gln	Lys	Thr	Gly	Ser	Tyr	Thr	Val
	50					55					60				
Ala	Leu	Pro	Pro	Gly	Cys	Arg	Leu	Thr	Tyr	Phe	Gln	Ser	Met	Asn	Gly
65					70					75					80
Asp	Gln	Phe	Gly	Thr	Ser	Arg	Arg	Lys	Ile	Thr	Ile	Ser	Gly	Gly	Thr
				85					90					95	
Ala	Thr	Val	Ser	Ala	Ala	Gly	Asp	Thr	Asp	Tyr	Ser	Ala	Gly	Thr	Glu
			100					105					110		
Pro	Ala	Ala	Ala	Ala	Tyr	Leu	Ile	Phe	Gln	Ile	Glu	Arg	Ala		
		115					120					125			

<210> 10881

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 10881

Ala	Pro	Thr	Arg	Ser	Pro	Ala	Pro	Pro	Ala	Thr	Asn	Pro	Phe	Ser	Phe
1				5					10					15	
Glu	Gln	Thr	Pro	Leu	Arg	Arg	Gly	Phe	Leu	Leu	Pro	Gly	Glu	Asn	Met
			20					25					30		
Ile	Tyr	Thr	Thr	Gly	Thr	Ile	Ala	Ile	Ser	Gly	Asn	Thr	Leu	Thr	Gly
		35					40					45			
Thr	Gly	Thr	Asn	Phe	Thr	Ala	Gly	Ser	Leu	Ile	Arg	Asn	Gly	Cys	
	50					55				60					
Thr	Val	Ile	Ala	Met	Thr	Ser	Pro	Val	Gln	Val	Phe	Gln	Ile	Thr	Thr
65				70						75					80
Ile	Gly	Ser	Ala	Thr	Ser	Leu	Thr	Val	Thr	Pro	Ala	Ala	Asn	Pro	Ala
			85						90				95		
Val	Pro	Ala	Gly	Thr	Arg	Phe	Ala	Ile	Leu	Leu	Ser	Asp	Ser	Leu	Ser
		100					105						110		
Val	Asp	Gly	Leu	Ala	Gln	Asp	Ile	Ala	Glu	Thr	Phe	Thr	Met	Tyr	Gln
	115						120					125			
Arg	Tyr	Met	Ser	Gly	Phe	Ala	Asp	Val	Met	Asn	Gly	Thr	Ser	Asp	Val
	130					135					140				
Thr	Ile	Thr	Ile	Asn	Gly	Thr	Ala	Val	Thr	Val	Pro	Gly	Gln	Lys	Ser
145				150						155					160
Leu	Ala	Lys	Lys	Gly	Ala	Asn	Ser	Asp	Ile	Thr	Ser	Leu	Ser	Gly	Leu
			165						170					175	
Lys	Thr	Ala	Leu	Ser	Ile	Glu	Gln	Gly	Gly	Thr	Gly	Ala	Lys	Asn	Ala
		180						185					190		
Ala	Asp	Ala	Arg	Thr	Asn	Leu	Gly	Leu	Gly	Thr	Ser	Ala	Thr	Leu	Asn
	195						200					205			
Ala	Arg	Pro	Asn	Glu	Thr	Tyr	Pro	Thr	Asp	Gly	Val	Leu	Thr	Val	Gly
	210					215						220			

Gln Tyr Gly Ile Gly Ala Gln Asn Pro Pro Leu Thr Thr Asp Phe Lys
 225 230 235 240
 Thr Ile Asp Arg Gly Ile Phe Ala Gly Ala Gly Ser Ala Gly Val
 245 250 255
 Asn Phe Tyr Asn Ala Phe Ala Pro Val Leu Val Met Ser Arg Tyr Ser
 260 265 270
 Ser Ser Ala Met Gln Ala Ile Gln Ala Asp Asn Ser Thr Leu Ala Phe
 275 280 285
 Asn Ile Lys Asp Gly Asn Gly Trp Arg Gly Trp Val Lys Leu Tyr Ser
 290 295 300
 Glu Asn Asn Thr Thr Arg Ala Ser Asp Gly Thr Leu Lys Val Ala Ser
 305 310 315 320
 Pro Val Val Arg Ile Val Arg Ser Gln Glu Glu Cys Arg Arg Ala Asp
 325 330 335
 Val Asp Lys Asp Gly Phe Ser Trp Cys Gly Cys Gly Thr Ala Asn Ala
 340 345 350
 Glu Ala Glu Gly Val Thr Leu Phe Arg Leu Asp Val Gly Val Tyr Val
 355 360 365
 Ile Ser Gly Ser Ala Gly Leu Ala Ser Glu Gly Trp Gln Leu Leu Pro
 370 375 380
 Pro Met Asp Pro Gly Gly Met Gly Glu Leu Gly Val Val Glu Ala Glu
 385 390 395 400
 Gln Thr Glu Ser Gly Gly Leu Thr Ile Arg Leu Phe Lys Arg Lys Tyr
 405 410 415
 Ile Leu Ser Glu Glu Gly Glu Ile Val Lys Thr Lys Gly Ala Pro Ile
 420 425 430
 Asp Val Pro Ala Asn Ser Trp Ile Asp Val Arg Leu Asp Met Pro Glu
 435 440 445
 Asp Ser Ile Trp Lys Thr Arg Ala Ser Glu Ala Ser Leu Glu Leu Thr
 450 455 460
 Glu Gln Pro Glu Asp Ile Gln Pro
 465 470

<210> 10882

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10882

Lys Pro Pro Val Ala Leu Ala Ala Thr Phe Lys Glu Arg Glu Ile Met
 1 5 10 15
 Ala Asp Lys Thr Ser Pro Glu Tyr Ala Met Leu Pro Ala Gly Thr Val
 20 25 30
 Val Met Trp Gly Ala Ala Gly Ser Asp Val Ala Thr Met Lys Pro Leu
 35 40 45
 Ile Asn Cys Lys Ala Leu Gly Ala Thr Gly Gln Thr Gly Ser Phe Val
 50 55 60
 Asp Cys Thr Thr Leu Ile Asp Thr Ser Lys Gln Phe Ile Ser Asp Leu
 65 70 75 80
 Pro Glu Gly Pro Glu Lys Ser Leu Gly Phe Ile Asp Asp Pro Ala Asn
 85 90 95
 Gln Asp Phe Ala Asp Phe Leu Asn Ala Ala Glu Asn Arg Glu Thr Val
 100 105 110
 Gln Phe Tyr Val Glu Leu Pro Asn Gly Arg Thr Ala Asn Met Ile Leu
 115 120 125
 Ala Leu Ser Gly Trp Gln Met Asn Glu Ile Thr Ala Pro Ala Ser Glu
 130 135 140
 Val Ile Gln Ile Thr Val Gln Gly Lys Gln Asn Asn Ile Thr Trp Gly
 145 150 155 160
 Thr Ala Ala Gly Ser
 165

<210> 10883
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 10883
 Phe Ser Gly Lys Thr Met Ser Thr Ile Asp Val Ser Ala Leu Lys Ser
 1 5 10 15
 Ala Leu Leu Lys Pro Lys Ser Ala Val Val Thr Ala Glu Ile Phe Gly
 20 25 30
 Thr Thr Val Tyr Leu Arg Arg Met Thr Ala Gly Glu Leu Ile Asp His
 35 40 45
 Glu Glu Ala Leu Arg Asp Ser Gln Ile Ala Glu Asp Ala Arg Lys Ala
 50 55 60
 Ser Glu Ile Ser Val Gln Leu Ile Val Asp Cys Leu Val His Pro Asp
 65 70 75 80
 Gly Ser Leu Ile Ala Ala Lys Asp Lys Pro Thr Ala Ala Glu Leu Leu
 85 90 95
 Gln Thr His Asp Asn Val Ala Leu Leu Asp Ala Ile Ala Thr Val Lys
 100 105 110
 Lys His Ala Leu Gly Lys Leu Glu Asp Ala Glu Lys Asn
 115 120 125

<210> 10884
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 10884
 Pro Ser Pro Arg Trp Gly Glu Gly Ile Val Leu His Leu Cys Glu Ser
 1 5 10 15
 Ser Ser Met Arg Ile Lys Thr Gly Leu Met Val Ala Ala Phe Val Met
 20 25 30
 Leu Ala Gly Cys Asn Ala Pro Ala Gln His Val Pro Val Glu Thr Cys
 35 40 45
 Lys Ala Asp Asn Gln Met Gln Gln Thr Thr Leu Tyr Phe Gly Leu Asn
 50 55 60
 Arg Pro Ala Gly Ala Gln Ile Thr Gly Ser Glu Trp Gln Gln Phe Val
 65 70 75 80
 Asp Gln Asp Val Thr Pro Arg Phe Arg Asp Gly Leu Thr Val Phe Asp
 85 90 95
 Ala Arg Gly Gln Trp Leu Gly Asn Asp Gly Lys Val Ala Arg Glu Pro
 100 105 110
 Ser Lys Ala Leu Met Leu Ile His Gly Lys Asp Ala Gln Ser Glu Lys
 115 120 125
 Asn Ile Glu Ala Leu Arg Gly Ile Tyr Lys Ser Arg Phe Ala Gln Glu
 130 135 140
 Ser Val Met Arg Val Asp Gln Pro Val Cys Val Gln Phe
 145 150 155

<210> 10885
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10885
 Gln Asn Ser Gln Lys Gly Leu Asp Leu Arg Leu Pro Gly Cys Gly Met
 1 5 10 15
 Phe Glu Ala Gly Ala Gln Glu Val Asn Leu Leu Leu Arg Arg Lys Pro
 20 25 30

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<210> 10886
<211> 78
<212> PRT
<213> Enterobacter cloacae
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<210> 10887
<211> 461
<212> PRT
<213> Enterobacter cloacae
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<400>	10887														
Arg	Ile	Tyr	Lys	Gln	Gln	Pro	Asp	Pro	Asp	Ser	Thr	Val	Pro	Val	Val
1			5						10					15	
Met	Ile	Val	Phe	Leu	Tyr	Val	Ile	Ala	Val	Ala	Met	Gly	Leu	Ala	Ile
			20					25					30		
Arg	Ala	Leu	Thr	Trp	Pro	Glu	Gln	Glu	His	Val	Thr	Ala	Leu	Phe	Phe
		35					40					45			
Val	Pro	Ser	Val	Ile	Leu	Pro	Ile	Cys	Val	Val	Ser	Leu	Leu	Val	Phe
	50					55					60				
Thr	Ser	Phe	Ile	Phe	His	Asp	Ala	Asn	Ile	His	Tyr	Ala	Glu	Thr	Arg
65					70					75					80
Lys	Phe	Ile	Ala	Lys	Glu	Gln	Glu	Ile	Asn	Leu	Lys	Ala	Tyr	Ala	Arg
				85					90					95	
Lys	Asn	Ile	Ala	Ile	Ala	Ala	Trp	Ser	Ala	Ile	Thr	Pro	Leu	Glu	Glu
			100					105					110		
Pro	Ala	Leu	Asn	Met	Leu	Lys	Leu	Glu	Gly	Glu	Phe	Pro	Leu	Ala	Pro
		115					120					125			
Lys	Thr	Pro	Val	Asn	Ile	Gln	Leu	Glu	Asp	Arg	Phe	Asp	Gln	Thr	Arg
	130					135					140				
Asn	Glu	Gln	Met	Phe	Tyr	Arg	Leu	Leu	Asp	Pro	Met	Ala	Glu	Lys	Leu
145					150					155					160
Lys	Asp	Tyr	Asn	Tyr	Arg	Ile	Phe	Glu	Thr	Val	Val	Trp	Val	His	Gly
				165					170					175	
Gly	Ser	Gly	Ser	Cys	Ile	Asp	Glu	Leu	Arg	Arg	Thr	Leu	Glu	Arg	Leu
			180					185					190		
Gly	Ile	Glu	Thr	Ala	Ser	Thr	Cys	Lys	Ile	Glu	Tyr	Ser	Thr	Glu	Cys
		195					200					205			
Pro	Asp	Tyr	Ala	Ile	Val	Ser	Gln	Trp	Met	Asn	Leu	Ser	Asp	Tyr	Arg
	210					215					220				
Val	Glu	Asn	Arg	Leu	Ile	Val	Ile	Val	Asp	Leu	His	Glu	Glu	Ser	Gly

225					230					235				240
Glu	Ser	Lys	Ser	Met	Glu	Asn	Ala	Cys	Ala	Phe	Leu	Leu	Thr	Ser
				245					250					255
Tyr	Val	Arg	Glu	Gly	Glu	Lys	Pro	Val	Tyr	Leu	Tyr	Gln	Pro	Met
			260				265						270	
Ser	Asp	Val	Thr	Asp	Val	Glu	Asp	Lys	Met	Ala	Val	Phe	Leu	Glu
			275				280						285	
Gly	Ser	Val	Leu	Thr	Pro	Lys	Asn	Leu	Trp	Tyr	Thr	Gly	Leu	Ser
			290				295					300		
Ile	Glu	Lys	Tyr	Pro	Leu	Met	Gln	Ala	Leu	Asp	Lys	Lys	Ala	Leu
305					310					315				320
Val	Glu	Arg	Leu	Asp	Ile	Asp	Ala	Ser	Leu	Gly	Ala	Lys	Ser	Ala
				325					330					335
Tyr	Arg	Trp	Leu	Ala	Leu	Ala	Phe	Ala	Ala	Asp	Ala	Val	Lys	Tyr
			340					345					350	
Gln	Gly	Glu	Gln	Leu	Ala	Ala	Tyr	Ser	Asp	Lys	Asn	Lys	Phe	Cys
			355				360					365		
Thr	Ser	Leu	Ser	Ser	Met	Lys	Thr	Ala	Ile	Pro	Lys	Lys	Leu	Thr
370						375					380			
Cys	Asn	Trp	Ser	Asn	Pro	Leu	Tyr	Pro	Ala	Gly	Met	Ala	Ala	Leu
385					390					395				400
Cys	Val	Leu	Ser	Leu	Ile	Ala	Tyr	Arg	Ile	Ser	Phe	Leu	Ala	Gln
				405					410					415
Asp	Pro	Pro	Ala	Ile	Trp	Glu	Leu	Ile	Ala	Ser	Ile	Ile	Ile	Pro
			420					425					430	
Val	Ile	Phe	Ile	Gly	Leu	Gly	Ile	Phe	Val	Phe	Ile	Ser	Lys	Thr
			435				440					445		
Glu	Ala	Tyr	Glu	Asp	Met	Glu	Tyr	Glu	Trp	Lys	Arg			
450						455					460			

<210> 10888

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10888

Met	Pro	Ala	Val	Ser	Ala	Leu	Phe	Thr	Leu	Asn	Pro	His	Asp	Ala	Ile
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Asp	Asp	Tyr	Arg	Pro	Arg	Lys	Ile	Ile	Glu	Lys	Gln	Asp	Ile	Thr	Ser
			20					25					30		
Phe	Ala	Gln	Asn	Lys	Tyr	Gly	Phe	Thr	Val	Ser	Cys	Cys	Val	Leu	Pro
			35				40					45			
Cys	Ile	Gln	Gln	Leu	Leu	Ser	Thr	Phe	Gly	Thr	Tyr	Asn	Leu	Ile	Ser
			50			55					60				
Ile	Pro	Leu	Asn	Thr	Lys	Gly	Ile	Pro	Gly	Leu	Lys	Gly	Val	Ile	His
65					70					75					80
Arg	Arg	Tyr	Pro	Asp	Ala	Lys	Thr	Gly	Ile	Val	Tyr	Arg	Ile	Tyr	Gly
			85						90					95	
Gly	Ile	Gly	Asp	Leu	Phe	Met	Glu	Arg	Lys	Gln	Val				
			100					105							

<210> 10889

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10889

Ile	Ser	Arg	Gly	Lys	Lys	Tyr	Arg	Leu	Ser	Ala	Ser	Ala	Gly	Met	Glu
1				5				10						15	
Asn	Asn	Arg	Thr	Val	Trp	Gly	Pro	Arg	Leu	Leu	Ser	Ser	Leu	Met	Ile
			20					25					30		